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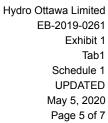
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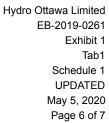
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UPDATED ADMINISTRATION

2

1

3 1. INTRODUCTION

- 4 In accordance with the Ontario Energy Board's ("OEB") Chapter 2 Filing Requirements for
- 5 Electricity Distribution Rate Applications, as updated on July 12, 2018 and addended on July 15,
- 6 2019 ("Filing Requirements"), this Schedule provides information relating to the administration of
- 7 this Application.

8

9 2. PRIMARY CONTACT INFORMATION

- 10 Gregory Van Dusen
- 11 Director, Regulatory Affairs
- 12 Hydro Ottawa Limited
- 13 2711 Hunt Club Road, PO Box 8700
- 14 Ottawa, Ontario K1G 3S4
- 15 Telephone: (613) 738-5499 ext. 7472
- 16 Fax: (613) 738-6403
- 17 Email: RegulatoryAffairs@hydroottawa.com

18

19 3. LEGAL REPRESENTATION

- 20 Fred Cass
- 21 Partner
- 22 Aird & Berlis
- 23 181 Bay Street, Suite 1800
- 24 Toronto, Ontario M5J 2T9
- 25 Email: fcass@airdberlis.com

26

27 4. INTERNET ADDRESS & MEDIA ACCOUNTS

- 28 Hydro Ottawa Limited's ("Hydro Ottawa" or "the utility") main webpage is the following:
- 29 www.hydroottawa.com.



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- 1 Regulatory documents will be available in the Active Applications tab of the Regulatory Affairs
- 2 section of the website: https://hydroottawa.com/about-us/regulatory-affairs/active-applications.
- The social media accounts maintained by Hydro Ottawa are as follows:

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- Twitter twitter.com/hydroottawa
- Facebook facebook.com/hydroottawa
- Instagram Instagram.com/hydroottawa 8
- 9 YouTube – youtube.com/hydroottawa
- 10 LinkedIn – linkedin.com/company/hydro-ottawa

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7

MATERIAL IMPACTS ON CUSTOMERS 12 **5.**

- 13 While the proposals set forth in this Application will change the rates for all customer classes,
- 14 there are no proposed changes that will result in bill impacts which exceed the 10% bill impact
- 15 threshold and which would thus have a material impact on customers.

16

17 **6. MATERIALITY THRESHOLD**

- As per the Filing Requirements, default materiality threshold is defined as \$1.0M for distributors
- with a revenue requirement greater than \$200.0M. As originally submitted, Hydro Ottawa's
- service revenue requirement for 2021 is \$214.9M. After accounting for 2019 actuals, the 2021
- 21 service revenue requirement is \$216.6M. Consequently, the default materiality threshold is
- 22 \$1.0M. However, consistent with the approach taken in its prior rebasing application, 1 Hydro
- Ottawa has generally explained variances based on a materiality threshold of \$750K for
- 24 purposes of this Application.

- 26 Hydro Ottawa notes that the \$1.0M materiality threshold will apply to the utility for any future Z
- 27 factor application.

²⁸ ¹ Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-setting Distribution Rate Application, EB-2015-0004 (April 29 29, 2015).



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1 7. PUBLICATION AND NOTICE

- 2 Hydro Ottawa recommends that the Notice of Hearing for this Application be published in the
- 3 Ottawa Citizen and Le Droit newspapers, both of which are paid daily publications. The Ottawa
- 4 Citizen is the English language newspaper serving Ottawa and the surrounding region, including
- 5 the Village of Casselman. It has a total daily circulation of approximately 80,200. Le Droit is the
- 6 French language newspaper serving Ottawa and the surrounding region, including the Village of
- 7 Casselman. Its total daily circulation is approximately 30,000.

8

9 8. BILL IMPACTS

- 10 Table 1 and Table 2 provide a summary of distribution bill impacts and total bill percentage
- 11 impact for a typical residential customer using 750 kWh per month and for a General Service
- 12 < 50 kW customer using 2,000 kWh per month. Both tables have been updated to incorporate
- 13 2019 actuals.

14 15

Table 1 – AS ORIGINALLY SUBMITTED – Residential Bill Impact

Residential (750 kWh)	2021	2022	2023	2024	2025
Change in Distribution Charge (\$)	\$1.31	\$2.18	\$1.84	\$0.98	\$0.61
Change in Distribution Charge (%)	4.57%	7.28%	5.73%	2.88%	1.75%
Total Bill % change	1.32%	1.54%	1.28%	0.68%	0.43%

16 17

Table 1 – UPDATED FOR 2019 ACTUALS – Residential Bill Impact

Residential (750 kWh)	2021	2022	2023	2024	2025
Change in Distribution Charge (\$)	\$1.98	\$1.88	\$1.54	\$0.99	\$0.62
Change in Distribution Charge (%)	6.91%	6.15%	4.74%	2.91%	1.77%
Total Bill % change	1.53%	1.33%	1.38%	0.69%	0.43%

18 19

Table 2 – AS ORIGINALLY SUBMITTED – General Service < 50 kW Bill Impact

General Service < 50 kW (2000 kWh)	2021	2022	2023	2024	2025
Change in Distribution Charge (\$)	\$1.74	\$5.07	\$5.15	\$3.05	\$2.25
Change in Distribution Charge (%)	2.44%	6.94%	6.59%	3.66%	2.61%
Total Bill % change	0.65%	1.37%	1.37%	0.81%	0.59%



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1 2

Table 2 – UPDATED FOR 2019 ACTUALS – General Service < 50 kW Bill Impact

General Service < 50 kW (2000 kWh)	2021	2022	2023	2024	2025
Change in Distribution Charge (\$)	\$2.89	\$5.02	\$4.48	\$3.05	\$2.26
Change in Distribution Charge (%)	4.05%	6.76%	5.65%	3.64%	2.60%
Total Bill % change	0.69%	1.36%	1.52%	0.80%	0.59%

3

4 9. FORM OF HEARING REQUESTED

5 Hydro Ottawa requests that this Application be disposed of by way of an oral hearing.

6

7 10. REQUESTED EFFECTIVE DATE

8 Hydro Ottawa is requesting approval of the proposed distribution rates and other charges set

9 forth in this Application effective January 1, 2021.

10

11 11. CHANGES TO METHODOLOGIES USED IN PREVIOUS APPLICATIONS

12 For certain business processes and for certain components in this Application, the methodology

13 employed by Hydro Ottawa has changed since the filing of the utility's previous rebasing

14 application. These changes are as follows:

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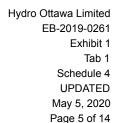
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- Hydro Ottawa has adopted three new accounting standards, all of which are in the International Financial Reporting Standard ("IFRS") family of standards: IFRS 15 Revenue from Contracts with Customers, IFRS 9 Financial Instruments, and IFRS 16 Leases. Please see Exhibit 1-3-10: Changes to Accounting Policies Used in Previous
- 20 Applications for more information.
 - With the goal of achieving greater alignment with the definitions utilized in the Chapter 5
 Filing Requirements for Electricity Transmission and Distribution Applications, Hydro
 Ottawa has restructured certain classifications within its capital program. For example,
 the utility has shifted both the Metering Program and Station Enhancements Program to
 the System Service category, as the projects within these programs are more aligned



Tab 1



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- with the drivers under this category. For additional examples and details, please see 1 2 Exhibit 2-4-3: Distribution System Plan.
 - As noted in section 16 below, Hydro Ottawa is requesting changes to the years of useful life for certain assets within the General Plant category. Please see Exhibit 2-4-4: Capitalization Policy and **UPDATED** Exhibit 4-3-1: Depreciation, Amortization, Disposal for more information.
 - In light of the modifications to the Conservation First Framework, this Application is proposing to rate-base certain conservation and demand management activities for all classes of customers, with a focus on commercial customers. For details, please refer to Exhibit 4-1-6: Conservation and Demand Management.
 - Various modifications have been made to the pricing methodology and the scope of Service Level Agreements governing the provision of shared services and allocation of costs between Hydro Ottawa and its affiliates. Please see Exhibit 4-2-1: Shared Services and Corporate Cost Allocation.
 - In accordance with Bill C-97, which received Royal Assent in June 2019, Hydro Ottawa has implemented new rules permitting accelerated capital cost allowance for eligible capital assets. Please see **UPDATED** Exhibit 4-4-1: Payments in Lieu of Taxes for more information.
 - In this Application, Hydro Ottawa has completed a cost allocation study based upon the OEB-approved model. The utility has made minor adjustments to the load profile data for purposes of cost allocation, as further explained in UPDATED Exhibit 7-1-1: Cost Allocation.
 - Hydro Ottawa is proposing to use updated Loss Adjustment Factors for the 2021-2025 period. Please see **UPDATED** Exhibit 8-9-1: Loss Adjustment Factors for more information.

OEB DIRECTIONS FROM PREVIOUS DECISIONS AND/OR ORDERS 27 **12**.

28 Below is a summary of previous OEB directives and a description of how such directives are 29 addressed by Hydro Ottawa in this Application.



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1

2 **12.1. DIRECTIVE #1**

In EB-2012-0383, the OEB indicated that unmetered load (kW) and consumption (kWh) data should ultimately be used to update load profile data for the purpose of the distributor's next cost allocation filing with the OEB, which occurs during the distributor's next cost of service application to the OEB. Subsequently, in a letter dated June 12, 2015, the OEB stated that "[t]here may be merit in updating load profiles to be more reflective of an individual distributor's circumstances. The OEB expects individual distributors to be mindful of material changes to load profiles and to propose updates in their respective cost of service or Custom IR applications when warranted."²

11

12 In this Application, details on updated load profiles can be found in **UPDATED** Exhibit 7-1-1:

13 Cost Allocation.

14

15 **12.2. DIRECTIVE #2**

On August 21, 2014, amendments to the *Distribution System Code* ("DSC") came into force which require a distributor to install a MIST meter on any installation that is forecast by the distributor to have a monthly average peak demand during a calendar year of over 50 kW.³ The deadline for distributors to comply with this DSC provision is August 21, 2020. Hydro Ottawa confirms that it is on track to achieve compliance with this requirement within the prescribed timeline.

22

23 **12.3. DIRECTIVE #3**

- 24 In its Decision rendered in EB-2015-0004 on February 25, 2016 (in the matter of a pole
- 25 attachment charge for Hydro Ottawa for the utility's 2016-2020 Custom Incentive Rate-Setting
- 26 ["Custom IR"] term), the OEB stated that Hydro Ottawa should use the pole attachment rate

² Ontario Energy Board, Letter re: *Issuance of New Cost Allocation Policy for Street Lighting Rate Class* (June 12, 2015), page 4.

³ Ontario Energy Board, *Notice of Amendment to a Code: Amendments to the Distribution System Code*, EB-2013-0311 (May 21, 2014).



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1 approved in the Decision, "subject to any direction from the OEB regarding the implementation

2 of any changes resulting from the Policy Review."

3

The OEB's policy review culminated with the issuance of the Report of the Board on Wireline

⁵ Pole Attachment Charges on March 22, 2018. In this report, the OEB established a policy that

"at the time of rebasing, LDCs may choose to select the provincially approved charge or to use

utility-specific costs and pursue an LDC-specific pole attachment charge that better reflects their

cost structures."6

9

As directed, during its 2016-2020 rate term, Hydro Ottawa has maintained use of the pole

attachment charge that was approved as part of the adjudication of its 2016-2020 Custom IR

application. By way of this Application, Hydro Ottawa is proposing to use the OEB's generic pole

attachment rate for the 2021-2025 rate period. For additional information, please see UPDATED

14 Exhibit 8-7-1: Specific Service Charges.

15

DIRECTIVE #4 16 **12.4**.

17 In the aforementioned decision rendered in EB-2015-0004 with respect to a pole attachment

charge for Hydro Ottawa (hereafter referred to as the "Pole Attachment Decision"), the OEB

directed Hydro Ottawa to issue invoices for the difference between the interim rate of \$22.35

and the approved pole attachment rate of \$53.00, should the utility have already issued

invoices. Hydro Ottawa issued invoices for the pole attachment difference where invoices had

22 already been issued. Please see UPDATED Exhibit 6-1-1: Calculation of Revenue Deficiency or

Sufficiency for the adjustment to base revenue requirement related to the Pole Attachment

24 Decision.

²⁶ Ontario Energy Board, *Decision and Rate Order on Pole Attachment Charge*, EB-2015-0004 (February 25, 2016)

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^{29 (}March 22, 2018). 30 6 *Ibid*, page 52.



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1 **12.5. DIRECTIVE #5**

2 In the Decision rendered in EB-2015-0004 on December 22, 2015 (in the matter of Hydro Ottawa's 2016-2020 Custom IR application), the OEB established a variance account for "the difference between revenue based on the final pole attachment charge yet to be approved by the OEB for Hydro Ottawa for 2016, and revenue based on the pole attachment charge underpinning the distribution rates approved by this order (i.e. \$57)." As instructed by the Pole Attachment Decision and approved as part of Hydro Ottawa's 2017 rate adjustment application, the amount was collected as part of Hydro Ottawa's 2017 rates. For additional information.

9 please see UPDATED Exhibit 9-1-3: Group 2 Accounts.

10

11 **12.6. DIRECTIVE** #6

12 In the Decision rendered in EB-2018-0044 on December 13, 2018 (in the matter of Hydro Ottawa's 2019 rate adjustment application), the OEB stated that it expected Hydro Ottawa to continue reporting on both the Efficiency Adjustment Mechanism and the Earnings Sharing Mechanism in the utility's 2021 application. Hydro Ottawa is therefore reporting on the 2019 Efficiency Adjustment Mechanism and 2018 Earnings Sharing Mechanism deferral accounts as part of this Application. For additional details, please see UPDATED Exhibit 9-1-3: Group 2 Accounts.

19

20 **12.7. DIRECTIVE #7**

In the aforementioned Decision rendered in EB-2018-0044, the OEB instructed Hydro Ottawa to provide an update on the resolution to an Industrial Conservation Initiative ("ICI") enrollment matter and report on any necessary adjustments. Hydro Ottawa has engaged the OEB on this matter and, at this time, is not requesting any adjustments. As part of its Decision and Order on Hydro Ottawa's 2020 rate adjustment application, the OEB stated, in reference to this directive, that "the OEB will proceed to finalize the balances for 2017 and 2018, and in light of the OEB's October 31, 2019 letter regarding Adjustments to Correct for Errors in Electricity Distributor

-

⁷ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015), page 7.

⁸ Hvdro Ottawa Limited, 2017 Electricity Distribution Rate Application, EB-2019-0046 (August 12, 2019).

⁹ Ontario Energy Board, *Decision and Rate Order*, EB-2019-0046 (December 17, 2019), page 6.

¹⁰ Ontario Energy Board, Decision and Rate Order, EB-2018-0044 (December 13, 2018), page 15.



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- 1 'Pass-Through' Variance Accounts After Disposition, the OEB expects that any revisions to
- 2 previous balances relating to this matter will be accommodated through the disposition of future
- 3 variance account balances."¹¹

4

5 12.8. **DIRECTIVE #8**

- 6 On February 14, 2019, the OEB issued a Decision and Order directing electricity distributors -
- 7 including distributors with utility-specific charges to implement new Retail Service Charges. 12
- 8 Hydro Ottawa implemented the new charges as directed and has used the updated rates as a
- placeholder as part of this Application. For additional details, please see Exhibit 8-4-1: Retail
- 10 Service Charges.

11

- 12 In addition, any electricity distributor which had discontinued the use of Account 1518 and
- 13 Account 1548 was to establish a new 1508 Sub-Account to record the difference in the
- 14 incremental revenue as a result of the Decision and Order. 13 As Hydro Ottawa had discontinued
- 15 the use of Account 1518 and Account 1548, a new Sub-Account to 1508 has been established.
- 16 In accordance with OEB direction, Hydro Ottawa started tracking the incremental revenue in this
- 17 new Sub-Account effective May 1, 2019. For additional details, please see UPDATED Exhibit
- 18 9-1-3: Group 2 Accounts.

19

20 12.9. **DIRECTIVE #9**

- 21 In its Decision rendered in EB-2019-0077 on October 17, 2019, the OEB approved an
- 22 application submitted by Hydro One Networks Inc. ("HONI") and Hydro Ottawa, pursuant to
- section 92 of the Ontario Energy Board Act, 1998, seeking leave to construct the Power South
- 24 Nepean Project.¹⁴ The project consists of two key components: (1) a new municipal transformer
- 25 station to be constructed by Hydro Ottawa; and (2) upgrades to existing transmission facilities,
- 26 as well as construction of a segment of new transmission line by HONI. The leave granted was

¹¹ Ontario Energy Board, *Decision and Rate Order*, EB-2019-0046 (December 17, 2019), page 13.

¹² Ontario Energy Board, Decision and Order in the matter of energy retailer service charges effective May 1, 2019, EB-2015-0304 (February 14, 2019).

¹³ *Ibid*, Schedule B, page 1.

¹⁴ Ontario Energy Board, *Decision and Order*, EB-2019-0077 (October 17, 2019).



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subject to the OEB's standard conditions of approval, one of which was that "[t]he applicants shall advise the OEB of any proposed material change in the project, including but not limited to changes in: the proposed route, construction schedule, the necessary environmental assessment approvals, and all other approvals, permits, licences, certificates and rights required to construct the proposed facilities."

6

Py way of this Application, Hydro Ottawa is informing the OEB of minor modifications to the project's construction schedule. Whereas the original schedule had contemplated an in-service date of November 2021, this date has subsequently been revised to Q2 2022. In addition, the name of the station has been changed from South Nepean Municipal Transformer Station ("MTS") to Cambrian MTS. For additional information, please see Attachment 2-4-3(E): Material Investments.

13

14 13. CONDITIONS OF SERVICE

- 15 The current version of Hydro Ottawa's Conditions of Service is available for viewing on the
- 16 following page of the utility's website:
- 17 https://hydroottawa.com/about-us/policies/conditions-service.

18

- 19 Since the filing of Hydro Ottawa's last rebasing application, there have been two sets of
- 20 revisions to the utility's Conditions of Service. Version 6 came into effect on April 1, 2017, while
- 21 Version 7 came into effect on April 1, 2019. A summary of the major changes to both versions
- 22 can be found below in Table 3 below.

. .

²³ ¹⁵ *Ibid*, Schedule B.



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Table 3 – Summary of Changes to Hydro Ottawa's Conditions of Service (2016-2019)

Section	Subject	Details	Implementation Date
1.6	Customer Rights and Responsibilities	Updated to identify customer rights	April 1, 2019
1.7	Distributor Rights and Responsibilities	Added distributor responsibilities to line up with the OEB's Consumer Charter	April 1, 2019
2.1	Connection	Added provisions for a Design Deposit for preparing and Offer to Connect, as well as a potential material and construction deposit for project-specific equipment.	April 1, 2017.
2.1.1	Point of Supply	Updated to reflect that Hydro Ottawa may choose to permit multiple services per property to accommodate electric vehicle charging (at its discretion)	April 1, 2019
2.1.2.1 / 3.1.3.7	Basic Credit	Policy clarified - one basic connection credit including one clearance or in-line pole. Expansion beyond that is subject to economic evaluation	April 1, 2019
2.2.1	Refusal to Connect for Previous Arrears	Updated to reflect Hydro Ottawa's policy on a refusal to connect unless previous amounts owing (related to previous accounts) are paid in full	April 1, 2019
2.4.5.5	Transformer Ownership Credit	Clarified that unmetered and temporary services do not receive a Transformer Ownership Credit ("TOC") and grandfathering conditions for TOCs that existed prior to November 1, 2000.	April 1, 2017
2.4.6.1	Methods of Payment and Payment Plans	Expanded options for bill payment.	April 1, 2017.
2.6.1 / 2.6.2	Customer Rate Classification	Clarified and updated criteria in determining customer rate classification.	April 1, 2017
3.0.8	Property Reinstatement	Added section outlining developer and property owner responsibilities with respect to new subdivision driveways and sidewalks.	April 1, 2017
3.0.17	Other Points of Ownership Demarcation	New section detailing demarcation of control signal lines and secondary distribution vault supplies	April 1, 2017
3.2.2 / 3.9.1	Service Requirements	Added 120/280 V, 2-phase, 3-wire, and 347.600V, 3-phase, 4-wire overhead supply up to 400A as offerings.	April 1, 2017
3.9	Temporary Services	Added conditions with respect to separate Temporary Services in addition to existing electrical Services	April 1, 2017

³ At the time of filing, Hydro Ottawa is not expecting that any of the approvals requested in this

⁴ Application would result in changes to its Conditions of Service.



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1 Hydro Ottawa confirms that no rates and charges are listed in its Conditions of Service that are

2 not in its Tariff of Rates and Charges.

3

4 14. CORPORATE AND UTILITY ORGANIZATIONAL STRUCTURE

- 5 A description of Hydro Ottawa's corporate and utility organizational structure, along with a
- 6 corporate entities relationship chart, is included in Exhibit 1-4-1: Corporate Structure and
- 7 Governance.

8

- 9 There are currently no plans for modifying Hydro Ottawa's corporate or operational structure,
- 10 nor for amending the utility's legal organization or control.

11

12 15. ACCOUNTING GUIDANCE FOR ACCOUNTS 1588 & 1589

- 13 In 2019, the OEB issued updated accounting guidance with respect to Account 1588 RSVA -
- 14 Power and Account 1589 RSVA Global Adjustment. 16 Hydro Ottawa confirms that its journal
- 15 entries are recorded, as per the instructions set forth in this guidance. For additional details,
- 16 please see **UPDATED** Exhibit 9-1-2: Group 1 Accounts.

17

18 16. SPECIFIC RELIEF REQUESTED

- 19 This Application is submitted pursuant to section 78 of the Ontario Energy Board Act, 1998.
- 20 Herein, Hydro Ottawa is seeking the following approvals, which are also separately identified in
- 21 UPDATED Appendix 2-A and clearly documented throughout applicable sections of this
- 22 Application:

2324

- a) Approval of 2021-2025 revenue requirement, as proposed in UPDATED Exhibit 6-1-1: Calculation of Revenue Deficiency or Sufficiency;
- b) Approval of 2021 distribution rates and charges, effective January 1, 2021, as proposed
 in UPDATED Exhibit 8-10-1: Current and Proposed Tariff of Rates and Charges;

²⁸ ¹⁶ Ontario Energy Board, *Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity* 29 *Pass-Through Accounts 1588 & 1589* (February 21, 2019).





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- c) Approval of the Custom IR rate-setting formula and related elements for 2022-2025 distribution rates and charges, as proposed in UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework;
 - d) Approvals related to deferral and variance accounts, as thus proposed throughout various Schedules in Exhibit 9:
 - approval of the continuation of certain existing deferral and variance accounts, as set out in <u>UPDATED</u> Exhibit 9-1-1: Summary of Current Deferral and Variance Accounts;
 - ii) approval of the discontinuance of certain existing deferral and variance accounts, as proposed in UPDATED Exhibit 9-1-1: Summary of Current Deferral and Variance Accounts and UPDATED Exhibit 9-1-3: Group 2 Accounts;
 - iii) approval of new deferral and variance accounts, as proposed in Exhibit 9-2-1: New Deferral and Variance Accounts; and
 - iv) disposition of balances in existing deferral and variance accounts, as set out in UPDATED Exhibit 9-3-1: Disposition of Deferral and Variance Accounts.
 - e) Approval of annual reporting for the 2021-2025 rate term, as proposed in Exhibit 1-1-11: Proposed Annual Reporting 2021-2025;
 - f) Approval for a transformer substation called Cambrian MTS, with assets that operate above 50 kV, to form part of the Hydro Ottawa distribution system, as proposed in Exhibit 2-4-3: Distribution System Plan;
- g) Approval of the inclusion into the 2021 opening rate base of Hydro Ottawa's New Facilities and Connection Cost Recovery Agreement Payments, whose revenue requirement has been held in deferral and variance accounts;
- h) Approval to include the cost of any future right-of-use assets related to leases as part of rate base, as proposed in Exhibit 1-3-10: Changes to Accounting Policies Used in Previous Applications;
- 27 i) Approval to cease providing the transformer ownership credit effective November 1, 28 2025, as proposed in UPDATED Exhibit 8-1-1: Fixed/Variable Proportion;



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- j) Approval to increase the Standard Supply Service Administrative Charge, as proposed
 in UPDATED Exhibit 8-7-1: Specific Service Charges;
- k) Approval of revised loss factor per **UPDATED** Exhibit: 8-9-1 Loss Adjustment Factors;
- 4 I) Approval to change the years of useful life for certain assets within the General Plant 5 category, as requested in Exhibit 2-4-4: Capitalization Policy and Attachment 2-4-3(F): 6 Fleet Replacement Program; and
- m) Approval of other items or amounts that may be requested by Hydro Ottawa in the course of the proceeding, and such other relief or entitlements that the OEB may grant.

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UPDATED - Appendix 2-A List of Requested Approvals

The distributor must fill out the following sheet with the complete list of specific approvals requested and relevant section(s) of the legislation must be provided. All approvals, including accounting orders (deferral and variance accounts) new rate classes, revised specific service charges or retail service charges which the applicant is seeking, must be separately identified, as well being clearly documented in the appropriate sections of the application.

Additional requests may be added by copying and pasting blank input rows, as needed.

If additional requests arise, or requested approvals are removed, during the processing of the application, the distributor should update this list.

Hydro Ottawa Limited is seeking the following approvals in this application:

1		Approval of 2021-2025 revenue requirement, as proposed in UPDATED Exhibit 6-1-1: Calculation of Revenue Deficiency or Sufficiency;
2		Approval of 2021 distribution rates and charges, effective January 1, 2021, as proposed in UPDATED Exhibit 8-10-1: Current and Proposed Tariff of Rates and Charges;
3		Approval of the Custom Incentive Rate-Setting formula and related elements for 2022-2025 distribution rates and charges, as proposed in UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework;
4		Approvals related to deferral and variance accounts, as thus proposed throughout various Schedules in Exhibit 9, as oulined in 4i- iv below:
4	i	approval of the continuation of certain existing deferral and variance accounts, as set out in UPDATED Exhibit 9-1-1: Summary of Current Deferral and Variance Accounts;

4	ii	approval of the discontinuance of certain existing deferral and variance accounts, as proposed in UPDATED Exhibit 9-1-2: Group 1 Accounts and UPDATED Exhibit 9-1-3: Group 2 Accounts;
4	iii	approval of new deferral and variance accounts, as proposed in Exhibit 9-2-1: New Deferral and Variance Accounts; and
4	iv	disposition of balances in existing deferral and variance accounts, as set out in UPDATED Exhibit 9-3-1: Disposition of Deferral and Variance Accounts
5		Approval of annual reporting for the 2021-2025 rate term, as proposed in Exhibit 1-1-11: Proposed Annual Reporting - 2021-2025;
6		Approval for a transformer substation called Cambrian MTS, with assets that operate above 50kV, to form part of the Hydro Ottawa distribution system, as proposed in Exhibit 2-4-3: Distribution System Plan;
7		Approval of the inclusion into the 2021 opening rate base of Hydro Ottawa's New Facilities and Connection Cost Recovery Agreement Payments, whose revenue requirement has been held in deferral and variance accounts;
8		Approval to include the cost of any future right-of-use assets related to leases as part of rate base, as proposed in Exhibit 1-3-10: Changes to Accounting Policies Used in Previous Applications;
9		Approval to cease providing the transformer ownership credit effective November 1, 2025, as proposed in UPDATED Exhibit 8-1-1: Fixed/Variable Proportion;
10		Approval to increase the Standard Supply Service Administrative Charge, as proposed in UPDATED Exhibit 8-7-1: Specific Service Charges;

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11	Approval of revised loss factor per UPDATED Exhibit: 8-9-1 Loss Adjustment Factors;
12	Approval to change the years of useful life for certain assets within the General Plant category, as requested in Exhibit 2-4-4: Capitalization Policy and Attachment 2-4-3(F): Fleet Replacement Program; and
13	Approval of other items or amounts that may be requested by Hydro Ottawa in the course of the proceeding, and such other relief or entitlements that the OEB may grant.



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CERTIFICATION OF EVIDENCE

I, Geoff Simpson, Chief Financial Officer of Hydro Ottawa Limited ("Hydro Ottawa"), hereby certify that, to the best of my knowledge, the UPDATED evidence filed in support of Hydro Ottawa's 2021-2025 Custom Incentive Rate-setting Application is accurate, consistent, and complete.

This certification is provided pursuant to the Ontario Energy Board's *Chapter 2, Chapter 3*, and *Chapter 5 Filing Requirements for Electricity Distribution Rate Applications*, as issued on July 12, 2018 and addended on July 15, 2019.

DATED this 4th day of May, 2020.



Geoff Simpson

Chief Financial Officer

Hydro Ottawa Limited



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UPDATED APPLICATION SUMMARY

2

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3 1. INTRODUCTION

- 4 This Schedule provides all of the information that is requested pursuant to section 2.1.6 of the
- 5 Ontario Energy Board's ("OEB") Chapter 2 Filing Requirements for Electricity Distribution Rate
- 6 Applications, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing
- 7 Requirements"). In addition, this Schedule summarizes the changes proposed in this Application
- 8 that will have a material impact on customers of Hydro Ottawa Limited ("Hydro Ottawa"),
- 9 including any changes to rates and charges that may affect discrete customer groups. As
- 10 appropriate, specific customers or customer groups that will be impacted by such proposals are
- 11 also identified.

12

13 2. REVENUE REQUIREMENT

- 14 As presented in Table 1 below, Hydro Ottawa's Service Revenue Requirement (as originally
- 15 submitted) is \$214.9M for the 2021 Test Year.

- 17 After accounting for 2019 actuals, Hydro Ottawa's Service Revenue Requirement is \$216.6M for
- the 2021 Test Year, as shown in the updated version of Table 1 below.



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Table 1 – AS ORIGINALLY SUBMITTED – Service Revenue Requirement - Change and Drivers (\$'000s)

	OEB- Approved	Test Year	Change		Drivers	
	2020	2021	\$	%		
Return on Rate Base	\$56,211	\$67,489	\$11,278	20%	 \$173.8M increase in net fixed assets Previously excluded items added back to rate base 	
Distribution Expenses (not including amortization)	\$89,007 ¹	\$93,923	\$4,916	6%	 Increases in compensation Inflationary increases Increase in distribution operations expenses 	
Amortization	\$49,384	\$52,450	\$3,066	6%	- Increase in sustainment additions	
Payment in Lieu of Taxes	\$5,943	\$1,024	(\$4,919)	(83%)	- Higher CCA deduction caused by large amount of fixed asset additions	
Service Revenue Requirement ²	\$200,544	\$214,886	\$14,342	7%		

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 $[\]frac{4}{5}$ This figure includes the mid-term adjustment to operations, maintenance and administration ("OM&A") expenses.

^{5 &}lt;sup>2</sup> Totals may not sum due to rounding.



2

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Table 1 – UPDATED FOR 2019 ACTUALS – Service Revenue Requirement - Change and Drivers (\$'000s)

	OEB- Approved	Test Year	Change		Drivers
	2020	2021	\$	%	
Return on Rate Base	\$56,211	\$68,158	\$11,947	21%	 \$173.8M increase in net fixed assets (as originally submitted) \$171.9M increase in net fixed assets (accounting for 2019 actuals) Previously excluded items added back to rate base
Distribution Expenses (not including amortization)	\$89,007 ³	\$93,923	\$4,916	6%	 Increases in compensation Inflationary increases Increase in distribution operations expenses
Amortization	\$49,384	\$52,333	\$2,949	6%	- Increase in sustainment additions
Payment in Lieu of Taxes	\$5,943	\$2,224	\$(3,719)	(63%)	 Higher CCA deduction caused by large amount of fixed asset additions (as originally submitted) Higher accounting depreciation add back caused by large amount of fixed asset additions (accounting for 2019 actuals)
Service Revenue Requirement ⁴	\$200,544	\$216,638	\$16,094	8%	

4 For further details on Hydro Ottawa's revenue requirement, please see **UPDATED** Exhibit 6-1-1:

5 Calculation of Revenue Deficiency or Sufficiency.

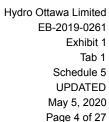
7 3. BUDGETING AND ACCOUNTING ASSUMPTIONS

- 8 3.1. ECONOMIC OVERVIEW (GROWTH AND INFLATION)
- 9 In keeping with the rate adjustment formula used in its 2016-2020 Custom Incentive
- 10 Rate-setting ("Custom IR") plan, Hydro Ottawa has assumed the Conference Board of Canada's
- updated inflation rate of 2.01% for all non-compensation-related costs in this Application.

¹² This figure includes the mid-term adjustment to operations, maintenance and administration ("OM&A") expenses.

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^{13 &}lt;sup>4</sup> Totals may not sum due to rounding.





With respect to operations, maintenance and administration ("OM&A") expenses, year one of the Application term (2021) is a traditional rebasing year, with rates set on the basis of a forecast Test Year of \$93.9M. Thereafter, OM&A expenditures in each year of the rate term will be adjusted using a Custom Price Escalation Factor ("CPEF") of 2.51%. The CPEF is comprised of three components, including a forecasted inflation factor of 2.26%. This factor is derived from applying Hydro Ottawa's specific labour/non-labour weighting factors to two indices (the Gross Domestic Product Implicit Price Index and Average Weekly Earnings for workers in Ontario, both reported by Statistics Canada) and averaging them over the 2017-2025 period.

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10 For more information on the CPEF, please see UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.

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13 3.2. ACCOUNTING STANDARDS

14 Hydro Ottawa adopted International Financial Reporting Standards ("IFRS") for financial 15 reporting purposes on January 1, 2015.

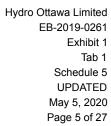
16

- Subsequent to that action, and to the filing of Hydro Ottawa's last rebasing application,⁵ the utility has adopted three new accounting standards as required by the International Accounting Standards Board, as follows:
- IFRS 9 *Financial Instruments*: this standard introduces revised guidance on the classification and measurement of financial assets, including basing the classification of financial assets on their contractual cash flow characteristics and the entity's business model for managing financial assets. Hydro Ottawa's adoption of IFRS 9 was effective as of January 1, 2018. There is no impact to revenue requirement associated with adoption of this standard.
 - IFRS 15 Revenue from Contracts with Customers: IFRS 15 provides a standardized, five-step model to recognize revenue (i.e. identify contract, identify performance obligations, determine transaction price, allocate transaction price, and recognize

26

27

Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application, EB-2015-0004 (April 29, 2015).





- revenue). The adoption of IFRS 15 was effective as of January 1, 2018. There is no 2 impact to revenue requirement associated with its adoption.
 - IFRS 16 Leases: this standard eliminates the current dual model (i.e. on and off balance sheet) and aims to provide greater comparability between companies who lease assets (i.e. right-of-use assets) and those who purchase assets with a single on-balance sheet approach. Hydro Ottawa adopted IFRS 16 as of January 1, 2019. As of that date, the adoption of IFRS 16 did not result in any right-of-use assets being recognized by the utility. However, by way of this Application, Hydro Ottawa is proposing to include the cost of any future right-of-use assets related to leases as part of rate base, since it is akin to purchasing property, plant, and/or equipment and financing it.

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- 12 For additional information on the aforementioned IFRS standards, please see Exhibit 1-3-10:
- 13 Changes to Accounting Policies Used in Previous Applications.

14

15 **4.** LOAD FORECAST SUMMARY

16 Hydro Ottawa's forecasted energy sales for the 2021 Test Year are 7,065,745 MWh, as originally submitted. This is 374,879 MWh (5.0%) lower than the 2016 OEB-approved MWh forecast. Accounting for 2019 actuals, Hydro Ottawa's forecasted energy sales for the 2021 Test

Year are 7,063,482 MWh. This is 377,142 MWh (5.1%) lower than the 2016 OEB-approved

MWh forecast.

21

- 22 Hydro Ottawa's demand sales forecast for the 2021 Test Year is 9,465,512 kW, as originally
- submitted.6 This is 659,441 kW (6.5%) lower than the 2016 OEB-approved kW forecast.
- Accounting for 2019 actuals, Hydro Ottawa's forecasted demand sales for the 2021 Test Year
- 25 are 9,454,357 kW. This is 708,793 kW (7.0%) lower than the 2016 OEB-approved kW forecast.

- 27 The utility's forecasted average number of customers for the 2021 Test Year is 344,936,
- 28 representing an increase of 6.1% over the 2016 OEB-approved number.

²⁹ ⁶ This represents kW sales for commercial classes above 50kW, Sentinel Lighting, Street Lighting, and Standby 30 Power.



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- 1 The updated version of Table 2 provides a high-level summary of Hydro Ottawa's load forecast
- 2 for the 2021-2025 Custom IR term.

3

Table 2 – AS ORIGINALLY SUBMITTED – Load Forecast Summary

Year	Total Sales (MWh)	Total Sales Demand (kW) ⁷	Average Customers ⁸
2021	7,065,745	9,465,512	344,936
2022	7,088,184	9,452,590	348,104
2023	7,116,619	9,452,792	351,138
2024	7,165,092	9,472,485	354,088
2025	7,179,631	9,457,798	357,017

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Table 2 - UPDATED FOR 2019 ACTUALS - Load Forecast Summary

Year	Total Sales (MWh)	Total Sales Demand (kW)9	Average Customers ¹⁰
2021	7,063,482	9,454,357	344,936
2022	7,085,688	9,450,676	348,104
2023	7,113,883	9,451,114	351,138
2024	7,162,048	9,470,932	354,088
2025	7,176,418	9,456,613	357,017

7

- 8 Hydro Ottawa has provided a detailed five-year, class-specific, and weather-normalized load
- 9 forecast and customer connection forecast for each rate class in UPDATED Exhibit 3-1-1: Load
- 10 Forecast. This forecast incorporates modifications to the provincial electricity conservation
- 11 framework that were enacted in 2019 as well as the impacts of embedded generation.

12

13 5. DISTRIBUTION SYSTEM PLAN

- 14 Hydro Ottawa has formulated a consolidated Distribution System Plan ("DSP"), which provides
- 15 a detailed and comprehensive view of the utility's investment plans and supporting information
- 16 for the 2021-2025 period.11 The DSP identifies the capital investments in Hydro Ottawa's

^{17 &}lt;sup>7</sup> *Ibid*.

¹⁸ Customer numbers do not include Street Lighting, Sentinel Lights, Unmetered Scattered Load, and Standby Power.

Customer numbers do not include Street Lighting, Sentinel Lights, Unmetered Scattered Load, and Standby Power.
 Please see Exhibit 2-4-3.



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- 1 distribution system and general plant assets which are required to maintain safe and reliable
- 2 service to customers in the City of Ottawa and Village of Casselman, with operations that
- 3 remain responsive to their primary needs and preferences: (i) keeping distribution rates low; (ii)
- 4 maintaining reliability; and (iii) investing in new technology. In addition, the DSP outlines how
- 5 capital investments will be prioritized, paced, and optimized, while minimizing rate impacts for
- 6 customers and facilitating continuous improvement and productivity.

- 8 The expenditures outlined in the DSP are driven by distinct, specific needs. Table 3 below
- 9 summarizes the major drivers underlying Hydro Ottawa's capital investment program for the
- 10 2021-2025 rate period.



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Table 3 – 2021-2025 Capital Expenditure Drivers by Investment Category

Investment Category	Driver	Description				
	Customer Service Request	Customer request for new connection (load or generation)				
System Access	Third Party Requirements	Request by a third party for plant relocation or upgrade to an existing service				
	Mandated Service Obligation	Regulatory requirement to maintain distribution licence under the <i>Distribution System Code</i> or requirement as per Hydro Ottawa's Conditions of Service				
System Renewal	Assets at End of Service Life i. Failure ii. Failure Risk iii. Substandard Performance iv. High Performance Risk v. Functional Obsolescence	 i. Asset no longer meets functional requirements ii. Asset is at risk of no longer meeting functional requirements iii. Asset still meets functional requirements; however, it falls below standards for operability or efficiency iv. Asset is at risk of failure in a way that can cause harm or damage to other equipment or assets or would put the distribution system in a detrimental state v. Asset is functionally obsolete with no spare parts, tools, and/or software to continue operation 				
	Capacity Constraint	Requirement for additional capacity (station transformation or circuit) due to planned or realized load increases				
System Service	Reliability	Requirements driven by poor distribution system performance such as abnormally high duration or frequency of interruptions				
	System Operability	Requirements for improved system operability and visibility				
	System Capital Investment Support	 Capital contributions to Hydro One Networks Inc. for connection projects Requirement for fleet/vehicle acquisition 				
General Plant	System Maintenance Support	Requirement for tools and associated equipment				
	Business Operations Efficiency	Requirements for information technology software and systems				
	Non-System Physical Plant	Building infrastructure requirements				



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- 1 Table 4, as updated below, provides a summary of the total capital expenditures that are
- 2 planned for the 2021-2025 Custom IR rate term. The changes in 2021 and 2022 are the result
- of updates to the MiGen program, as described in updated section 2.3.3 of Attachment 2-4-3(E):
- 4 Material Investments.

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Table 4 – AS ORIGINALLY SUBMITTED – Summary of 2021-2025 Capital Expenditures (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$31.0	\$27.4	\$24.3	\$25.2	\$23.9	\$26.4
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(41.3)	\$(25.2)	\$(19.9)	\$(19.2)	\$(19.3)	\$(25.0)
TOTAL	\$121.8	\$98.9	\$89.6	\$97.2	\$96.0	\$100.7

Table 4 – UPDATED FOR 2019 ACTUALS – Summary of 2021-2025 Capital Expenditures (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$26.7	\$28.3	\$24.3	\$25.2	\$23.9	\$25.7
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(39.2)	\$(23.5)	\$(19.9)	\$(19.2)	\$(19.3)	\$(24.2)
TOTAL	\$119.5	\$101.5	\$89.6	\$97.2	\$96.0	\$100.8

- 12 These figures illustrate the sustained level of need for significant capital investment in Hydro
- 13 Ottawa's distribution system, in order to maintain reliability and service quality for customers.
- 14 This need is the result of several factors, including aging infrastructure, an expanding customer
- base, continued growth across the City of Ottawa, and the effects of severe weather events.



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1 5.1.1. Renewable Energy Connection Costs

- 2 There are no renewable energy connection projects included in Hydro Ottawa's DSP which
- 3 seek cost recovery from all ratepayers.

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- 5 Similarly, Hydro Ottawa is not planning to specifically address stations that have restrictions for
- 6 the connection of Energy Resource Facilities ("ERFs") within its capital expenditure plan.
- 7 Nevertheless, the utility intends to replace station transformers that are identified for
- 8 replacement through its Asset Management Process with units that have reverse-flow
- 9 capabilities and can thus accommodate injection of renewable energy onto the grid.

10

- 11 The DSP does acknowledge that the number of ERF connections is expected to continue
- 12 growing over the 2021-2025 rate period. Hydro Ottawa will respond to customer/generator
- 13 requests for ERF connection and will seek appropriate recovery of costs from ERF proponents,
- 14 as per its established Connection Impact Assessment process.

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16 5.1.2. Smart Grid Costs

17 Table 5 below identifies planned investments related to Smart Grid for the 2021-2025 period.



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Table 5 – AS ORIGINALLY SUBMITTED – Planned Smart Grid Investments (\$'000s)

	Forecast						
Budget Program & Project ¹²	2021	2022	2023	2024	2025	Total	
Stations Enhancements • Station Temperature Sensors • Station Cybersecurity (OT Visibility & Safeguards)	\$905	\$459	\$459	\$459	\$459	\$2,741	
Distribution Enhancements • Smart Grid Fund Initiatives • Great-DR Phase 2 (MiGen) • Other Distribution Enhancement Projects	\$5,955	\$4,016	\$2,262	\$1,860	\$1,788	\$15,881	
SCADA Upgrades	\$803	\$2,708	\$1,521	\$501	\$1,891	\$7,424	
RTU Upgrades • Self-Healing Grid	\$253	\$253	\$253	\$253	\$253	\$1,265	
Communications Infrastructure Optical Telecommunications Network Replacement Field Area Network	\$1,790	\$1,044	\$1,044	\$1,044	\$2,035	\$6,957	
Remote Disconnected Smart Meter	\$501	\$501	\$501	\$501	\$501	\$2,505	
Cybersecurity Enhancement	\$302.3	\$201.5	\$201.5	\$201.5	\$201.5	\$1,108	

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Additional information on these projects are available in Attachment 2-4-3(E): Material Investments. With the
 exception of Cybersecurity Enhancement, all of the projects listed fall under the System Service category.

⁵ Cybersecurity Enhancement is within the General Plant category.



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Table 5 - UPDATED FOR 2019 ACTUALS - Planned Smart Grid Investments (\$'000s)

		Forecast						
Budget Program & Project ¹³	2021	2022	2023	2024	2025	Total		
Stations Enhancements	\$905	\$459	\$459	\$459	\$459	\$2,741		
Distribution Enhancements • Smart Grid Fund Initiatives • Great-DR Phase 2 (MiGen) • Other Distribution Enhancement Projects	\$1,612	\$4,919	\$2,262	\$1,860	\$1,788	\$12,440		
SCADA Upgrades	\$803	\$2,708	\$1,521	\$501	\$1,891	\$7,424		
RTU Upgrades • Self-Healing Grid	\$253	\$253	\$253	\$253	\$253	\$1,265		
Communications Infrastructure Optical Telecommunications Network Replacement Field Area Network	\$1,790	\$1,044	\$1,044	\$1,044	\$2,035	\$6,957		
Remote Disconnected Smart Meter	\$501	\$501	\$501	\$501	\$501	\$2,505		
Cybersecurity Enhancement	\$302.3	\$201.5	\$201.5	\$201.5	\$201.5	\$1,108		

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3 **5.1.3. Regional Planning Initiatives**

- 4 Hydro Ottawa is currently engaged in the latest Integrated Regional Resource Plan ("IRRP")
- 5 cycle for the Greater Ottawa area, which is expected to be completed in Q1 2020. 4 A number of
- 6 regional and bulk system needs are currently being studied to determine optimal solutions.
- 7 Table 6 below summarizes the preliminary short-term needs that have thus far been identified
- 8 through the IRRP process. Of note, along with Hydro Ottawa, Hydro One Networks Inc.

⁹ ¹³ Additional information on these projects are available in Attachment 2-4-3(E): Material Investments. With the 10 exception of Cybersecurity Enhancement, all of the projects listed fall under the System Service category.

¹¹ Cybersecurity Enhancement is within the General Plant category.
12 14 The new IRRP for Greater Ottawa was published by the Independent Electricity System Operator ("IESO") on

¹³ March 4, 2020. The planning solutions identified in the final IRRP match those that are identified in Table 6 below. In

¹⁴ addition, the IESO is set to undertake an addendum study to investigate a handful of planning matters in more detail.

¹⁵ Accordingly, Hydro Ottawa has not made any updates to this section of the Schedule or to its 2021-2025 DSP, as the

¹⁶ existing content regarding regional planning initiatives remains relevant.



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- 1 ("HONI") is set to be assigned responsibility for executing certain solutions that are under
- 2 consideration for addressing identified needs.

3

4 Table 6 – Preliminary Results from Active IRRP Cycle for Greater Ottawa Region

Need	Description	Preliminary Solution
Supply to Kanata	Several stations in the area are operating at or near their planning capacity. Large commercial and residential developments are driving significant growth in electricity demand in the near-term and medium-term.	Limitations on the existing transmission system in the area cannot accommodate expansion of the existing stations. A new station is likely required to provide reliable long-term supply in the area. The IESO is currently developing a bulk transmission plan in parallel to the Greater Ottawa IRRP that might impact requirements for connecting the new station. Bulk transmission plan will be finalized in 2020. Hydro Ottawa is planning to implement distribution system upgrades to distribute forecast growth between stations in the area.
Supply to South East Ottawa	Several stations in the area are operating at or near their planning capacity. Demand is expected to increase driven by large residential, mixed and industrial developments.	Hydro Ottawa will proceed with a plan to build a new 230 kV connected supply station in the south east part of the City. The new station is planned for energization in 2025. HONI will evaluate the options for this upgrade in the Regional Infrastructure Plan.
Supply to East Ottawa	Bilberry Creek TS came into service in 1976 and is approaching end of life. Options to decommission or refurbish the station were evaluated including the impact to the bulk system. Large industrial and residential mixed-use developments are forecasted to increase demand over the near-term and medium-term.	HONI will refurbish Bilberry Creek TS, including like for like transformer replacement. HONI will expand the station to provide two additional breaker positions to supply Hydro Ottawa customers.
Supply to the Regional 115 kV System	Several of the 230/115 kV transformers at Merivale and Hawthorne are operating at or near their capability	HONI will replace the more limiting of the 230/115 kV transformers at Merivale TS in the near-term so that the two Merivale transformers have similar capability. Subsequent to the release of the IRRP, the Working Group will undertake an IRRP Addendum Study. This will include an evaluation of the potential benefit of non-wires options to manage future demand growth on the 115 kV system.

- 6 Hydro Ottawa's five-year investment plan incorporates required projects to address the
- 7 near-term regional needs, as identified in Table 7 below. Of note, these investments will remain
- 8 subject to change through the finalization of the IRRP and subsequent Regional Infrastructure
- 9 Plan ("RIP") processes.



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Table 7 – Planned Investments Related to Regional Planning (\$'000,000s)

Project		Forecast							
•	2021	2022	2023	2024	2025	Total			
Cambrian Municipal Transformer Station ¹⁵	\$27.9	\$2.2	\$0	\$0	\$0	\$30.1			
New East Station ¹⁶	\$0.51	\$2.61	\$7.32	\$10.46	\$9.79	\$30.69			
Distribution Capacity Upgrades (Kanata North, South Nepean, Bilberry)	\$1.49	\$2.10	\$3.80	\$3.04	\$1.50	\$11.93			

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3 6. RATE BASE

- 4 Table 8, as updated below, summarizes proposed changes in rate base for 2021. As originally
- 5 submitted, Hydro Ottawa's 2021 Test Year rate base is budgeted to be \$244.8M or 25% higher
- 6 than the 2020 OEB-approved amount. Accounting for 2019 actuals, Hydro Ottawa's 2021 Test
- 7 Year rate base is budgeted to be \$256.9M or 26% higher than the 2020 OEB-approved amount.
- 8 The increase is attributable to planned increases in capital additions as well as to
- 9 previously-excluded items being placed back into rate base at their net book value.

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- 11 Full details on Hydro Ottawa's proposed rate base for 2021-2025 can be found in UPDATED
- 12 Exhibit 2-1-1: Rate Base Overview.

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^{13 &}lt;sup>15</sup> Project costs include Connection Cost Recovery Agreement ("CCRA") payments to HONI.

¹⁴ Project costs include CCRA payments to HONI.



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Table 8 – AS ORIGINALLY SUBMITTED – 2020 OEB-Approved Rate Base vs. 2021 Test

Year Rate Base (\$'000s)

	OEB-Approved	Test Year	Change		
	2020 2021		\$	%	
Rate Base	\$973,801	\$1,218,659	\$244,858	25%	

Table 8 – UPDATED FOR 2019 ACTUALS – 2020 OEB-Approved Rate Base vs. 2021 Test Year Rate Base (\$'000s)

	OEB-Approved	Test Year	Change		
	2020 2021		\$	%	
Rate Base	\$973,801	\$1,230,736	\$256,935	26%	

7 Table 9 below provides a summary of the change in capital expenditures between the

8 2021-2025 Test Year proposals and OEB-approved expenditures for the 2016-2020 period. The

9 \$34.0M reduction in capital expenditures can be largely explained by the completion of the

10 Facilities Renewal Program.¹⁷ For further details, please see UPDATED Exhibit 2-4-1: Capital

11 Expenditure Summary and Exhibit 2-4-3: Distribution System Plan.

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¹² For more information on the Facilities Renewal Program, please see UPDATED Attachment 2-1-1(A): New

¹³ Administrative Office and Operations Facilities.



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Table 9 – AS ORIGINALLY SUBMITTED – 2016-2020 OEB-Approved Capital Expenditures

vs. 2021-2025 Proposed Capital Expenditures (\$'000s)

	OEB-Approved Test Years		Cha	nge
	2016-2020	2021-2025	\$	%
Capital Expenditures	\$537,450 ¹⁸	\$503,494	\$(33,956)	(6%)

Table 9 – UPDATED FOR 2019 ACTUALS – 2016-2020 OEB-Approved Capital

Expenditures vs. 2021-2025 Proposed Capital Expenditures (\$'000s)

	OEB-Approved	Test Years	Change		
	2016-2020	2021-2025	\$	%	
Capital Expenditures	\$537,450 ¹⁹	\$503,799	\$(33,651)	(6%)	

7 7. OPERATIONS, MAINTENANCE, AND ADMINISTRATION EXPENSE

- 8 Hydro Ottawa's 2021 OM&A budget was developed as a Test Year rebasing budget and is
- 9 based on the utility's forecast of expenditures needed to maintain service reliability and safety,
- and to remain in compliance with regulatory and legislative requirements.

12 As discussed in section 3.1 above, for the 2022-2025 Test Years Hydro Ottawa will adjust

OM&A using a CPEF to align with the principles of incentive regulation, as enshrined in the

4 Renewed Regulatory Framework ("RRF"). This formula consists of a two-component Price Cap

5 Index ("PCI"): inflation and productivity. The formula includes an inflation factor and two factors

for productivity. One productivity factor is a fixed amount for industry-wide productivity, and the other is a stretch factor which is set each year based on the level of productivity the distributor

18 has achieved. In addition to the PCI components, the CPEF includes a growth factor as well.

^{19 18} Approved capital expenditures for 2016-2020 are equivalent to those which were included in Hydro Ottawa's

original 2016-2020 rate application. In the Approved Settlement Agreement governing the utility's 2016-2020 rate
 plan, the \$10.0M reduction was applied to capital additions only.
 Approved capital expenditures for 2016-2020 are equivalent to those which were included in Hydro Ottawa's

original 2016-2020 rate application. In the Approved Settlement Agreement governing the utility's 2016-2020 rate plan, the \$10.0M reduction was applied to capital additions only.



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- 1 The CPEF that Hydro Ottawa is proposing to apply to OM&A costs for the 2022-2025 Test Years
- 2 is 2.51%. For more information on the CPEF and how it was developed, please see UPDATED
- 3 Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.
- Table 10 below outlines Hydro Ottawa's Historical, Bridge, and Test Year OM&A expenditures.

Table 10 – AS ORIGINALLY SUBMITTED – OM&A Expenditures & Variances (\$'000s)

	Year	OM&A	Previous Year	Variance	Variance
	2016	\$82,621			
Historical	2017	\$82,245	\$82,621	\$(376)	(0.46)%
	2018	\$86,863	\$82,245	\$4,619	5.62%
Bridge	2019	\$87,545	\$86,863	\$682	0.79%
Bridge	2020	\$91,990	\$87,545	\$4,445	5.08%
	2021	\$93,923	\$91,990	\$1,932	2.10%
	2022	\$96,280	\$93,923	\$2,357	2.51%
Test	2023	\$98,697	\$96,280	\$2,417	2.51%
	2024	\$101,174	\$98,697	\$2,477	2.51%
	2025	\$103,714	\$101,174	\$2,539	2.51%

9 Table 10 – UPDATED FOR 2019 ACTUALS – OM&A Expenditures & Variances (\$'000s)

	Year	OM&A	Previous Year	Variance	Variance
	2016	\$82,621			
Historical	2017	\$82,245	\$82,621	\$(376)	(0.46)%
Historical	2018	\$86,863	\$82,245	\$4,619	5.62%
	2019	\$83,113	\$86,863	(\$3,750)	(4.32%)
Bridge	2020	\$91,990	\$83,113	\$8,878	10.68%
	2021	\$93,923	\$91,990	\$1,932	2.10%
	2022	\$96,280	\$93,923	\$2,357	2.51%
Test	2023	\$98,697	\$96,280	\$2,417	2.51%
	2024	\$101,174	\$98,697	\$2,477	2.51%
	2025	\$103,714	\$101,174	\$2,539	2.51%

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- 1 For 2021 Test Year OM&A, Table 11 below shows both the dollar and percentage change from
- 2 the last year of OM&A expenditures approved by the OEB (i.e. 2020 Bridge Year).

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Table 11 – 2020 OEB-Approved OM&A vs. 2021 Test Year OM&A (\$'000s)

	OEB-Approved	Test	Change		
	2020 2021		\$	%	
OM&A	\$89,007	\$93,923	\$4,916	5.5%	

5

- 6 For more information on OM&A, please see **UPDATED** Exhibit 4-1-1: Operations, Maintenance
- 7 and Administration Summary and **UPDATED** Exhibit 4-1-3: Operations, Maintenance and
- 8 Administration Program Costs.

9

10 7.1. COST DRIVERS & TRENDS

- 11 Table 12 below shows the overall cost drivers for OM&A. More detailed explanations for each
- 12 item are provided in **UPDATED** Exhibit 4-1-4: Operations, Maintenance and Administration Cost
- 13 Drivers and Program Variance Analysis.



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Table 12 - AS ORIGINALLY SUBMITTED - Summary of Overall OM&A Cost Drivers and Trends (\$'000,000s)

Major Driver	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year
OPENING BALANCE	\$83.120	\$ 82.6	\$ 82.2	\$ 86.8	\$ 87.5	\$ 91.9
Labour Compensation and Benefits		\$(0.2)	\$3.3	\$0.6	\$1.6	\$2.0
Proactive and Reactive Distribution System Maintenance		\$0.1	\$0.5	\$0.5	\$(0.1)	\$0.3
Facilities, Insurance and Fuel		\$0.1	\$0.3	\$2.9	\$(1.5)	\$0.2
OEB Fees and CDM Allocation		\$(0.1)	\$0.0	\$0.2	\$0.2	\$0.7
Call Centre, Postage and Bad Debt		\$0.3	\$(1.0)	\$ (0.7)	\$0.8	\$0.0
Dark Fiber Fees		\$(0.1)	\$0.0	\$0.3	\$0.9	\$(1.7)
Technology		\$0.8	\$0.4	\$0.5	\$1.3	\$0.9
SLA Cost Reclassification		\$0.0	\$0.0	\$(3.7)	\$(0.2)	\$(0.1)
Other	\$(0.5)	\$(1.3)	\$1.1	\$0.1	\$1.4	\$(0.3)
Total Change	\$(0.5)	\$(0.4)	\$4.6	\$0.7	\$4.4	\$2.0
CLOSING BALANCE ²¹	\$ 82.6	\$ 82.2	\$ 86.8	\$ 87.5	\$ 91.9	\$ 93.9

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 ⁴ ²⁰ The 2016 Opening Balance represents that which was approved by the OEB in the adjudication of Hydro Ottawa's
 ⁵ 2016-2020 Custom IR application (EB-2015-0004).
 ²¹ Totals may not sum due to rounding.



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1 Table 12 - UPDATED FOR 2019 ACTUALS - Summary of Overall OM&A Cost Drivers and

Trends²² (\$'000,000s) 2

Major Driver	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year
OPENING BALANCE	\$83.1 ²³	\$ 82.6	\$ 82.2	\$ 86.8	\$ 83.1	\$ 91.9
Labour Compensation and Benefits		\$(0.2)	\$3.3	(\$1.9)	\$4.1	\$2.0
Proactive and Reactive Distribution System Maintenance		\$0.1	\$0.5	\$0.0	\$0.4	\$0.3
Facilities, Insurance, and Fuel		\$0.1	\$0.3	\$3.4	\$(2.0)	\$0.2
OEB Fees and CDM Allocation		\$(0.1)	\$0.0	\$0.2	\$0.2	\$0.7
Call Centre, Postage, and Bad Debt		\$0.3	\$(1.0)	\$(0.7)	\$0.8	\$0.0
Dark Fiber Fees		\$(0.1)	\$0.0	\$0.1	\$1.0	\$(1.7)
Technology		\$0.8	\$0.4	\$0.5	\$1.3	\$0.9
SLA Cost Reclassification		\$0.0	\$0.0	\$(3.2)	\$(0.7)	\$(0.1)
Other	\$(0.5)	\$(1.3)	\$1.1	\$(2.1)	\$3.7	\$(0.3)
Total Change	\$(0.5)	\$(0.4)	\$4.6	\$(3.7)	\$8.8	\$2.0
CLOSING BALANCE ²⁴	\$ 82.6	\$ 82.2	\$ 86.8	\$ 83.1	\$ 91.9	\$ 93.9

4 **7.2. COMPENSATION**

- 5 Table 13 below shows the total compensation included in OM&A for each of the Historical,
- 6 Bridge, and Test Years. For more information, please see **UPDATED** Exhibit 4-1-4: Operations,
- 7 Maintenance and Administration Cost Drivers and Program Variance Analysis as well as
- 8 **UPDATED** Exhibit 4-1-5: Workforce Staffing and Compensation.

⁹ ²² Information has been updated and presented consistent with UPDATED Attachment 4-1-4(A): OEB Appendix 2-JB: 10 Recoverable OM&A Cost Driver Table.

¹¹ ²³ The 2016 Opening Balance represents that which was approved by the OEB in the adjudication of Hydro Ottawa's 12 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application (EB-2015-0004).
13 24 Totals may not sum due to rounding.



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1 Table 13 - AS ORIGINALLY SUBMITTED - Total Compensation Costs, Including Benefits (\$'000s)

	Year	Compensation	Previous Year	Variance (\$)	Variance (%)
	2016	\$72,127			
Historical	2017	\$71,939	\$72,127	\$(188)	(0.26)%
	2018	\$75,205	\$71,939	\$3,266	4.54%
Bridge	2019	\$75,810	\$75,205	\$605	0.80%
blidge	2020	\$77,447	\$75,810	\$1,637	2.16%
Test	2021	\$79,486	\$77,447	\$2,039	2.63%

Table 13 – UPDATED FOR 2019 ACTUALS – Total Compensation Costs, Including Benefits (\$'000s)

	Year	Compensation	Previous Year	Variance (\$)	Variance (%)
	2016	\$72,127			
Historical	2017	\$71,939	\$72,127	\$(188)	(0.26)%
HIStorical	2018	\$75,205	\$71,939	\$3,266	4.54%
	2019	\$73,329	\$75,205	\$(1,876)	(2.49)%
Bridge	2020	\$77,447	\$73,329	\$4,118	5.62%
Test	2021	\$79,486	\$77,447	\$2,039	2.63%

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The Filing Requirements stipulate that applicants must specify total compensation costs for the Test Year as well as the change in compensation costs between the Test Year and the last OEB-approved year (expressed in both monetary and percentage terms). In this regard, Hydro Ottawa notes that the previous approval granted by the OEB with respect to compensation 11 costs was embedded in the OEB's general approval of the utility's total OM&A costs for the 2016-2020 period. More specifically, in the adjudication of Hydro Ottawa's 2016-2020 Custom 13 IR application, the utility was granted approval for an overall envelope of OM&A costs (inclusive 14 of compensation) for the 2016 base year, with 2017-2020 OM&A costs adjusted on an annual 15 basis using an escalator factor.



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- 1 For more information on Hydro Ottawa's compensation costs, including a comparison of 2021
- 2 Test Year compensation costs with Historical and Bridge Year costs for the 2016-2020 period,
- 3 please see UPDATED Exhibit Attachment 4-1-5(A): Employee Compensation Strategy.

5 8. COST OF CAPITAL

- 6 Table 14 below summarizes the capital structure, cost of capital parameters, and Weighted
- 7 Average Cost of Capital ("WACC") that Hydro Ottawa is proposing to utilize for purposes of this
- 8 Application.

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Table 14 – 2021-2025 Weighted Average Cost of Capital

Year	Short-Term Debt Weight	Short-Term Debt Rate	Long-Term Debt Weight	Long-Term Debt Rate	Equity Weight	Return on Equity	WACC
2021	4%	2.75%	56%	3.35%	40%	8.88%	5.54%
2022	4%	2.75%	56%	3.36%	40%	9.13%	5.64%
2023	4%	2.75%	56%	3.40%	40%	9.31%	5.74%
2024	4%	2.75%	56%	3.44%	40%	9.41%	5.80%
2025	4%	2.75%	56%	3.69%	40%	9.46%	5.96%

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Hydro Ottawa is using the OEB's cost of capital methodology for its capital components. The short-term debt component uses the 2.75% rate as outlined in the OEB's 2020 Cost of Capital Parameters letter dated October 31, 2019.²⁵ Hydro Ottawa is proposing that this rate be locked in for the five-year term covered by this Application. The long-term debt and return on equity ("ROE") are calculated as per UPDATED Exhibit 5-1-1: Cost of Capital and Capital Structure, and use the OEB's formulaic methodology to determine the forecast rates. The only deviation from this is the use of Hydro Ottawa's own historical spreads in determining long-term interest rates.

²⁰ Ontario Energy Board, Letter re: 2020 Cost of Capital Parameters (October 31, 2019).



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1 9. COST ALLOCATION AND RATE DESIGN

2 9.1. COST ALLOCATION

Hydro Ottawa engaged Elenchus Research Associates ("Elenchus") to assist in preparing a Cost Allocation Model for the 2021 Test Year. Using the OEB's approved cost allocation methodologies and the V3.7 Cost Allocation Model, Hydro Ottawa's 2021 base revenue requirement has been allocated to the utility's nine rate classes. The primary purpose of the Cost Allocation Report is to determine the proportions of total revenue requirement that are the responsibility of each rate class.²⁶ The resulting revenue-to-cost ratios for each rate class were determined using the total revenues over costs for the Test Year, pursuant to the OEB's policies for cost allocation by electricity distributors.²⁷

11

12 **9.2. RATE DESIGN**

The results of the Cost Allocation Report were the main input into Hydro Ottawa's rate design process. Elenchus undertook the study to determine whether refinements were necessary to better reflect the OEB's principle of cost causality in the utility's cost allocation to customers. The result of Elenchus' study indicated that some classes of customers fell outside the acceptable revenue-to-cost ranges as established by the OEB. The utility adjusted GS <50 kW, Large Use, and Street Lighting customer classes to bring them within the specified ranges. The Sentinel customer class will be adjusted over a five-year period to mitigate the bill impact associated with a large increase in revenue requirement that is necessary to bring that class within its range.

- 23 As of January 1, 2020, Residential distribution rates are fully fixed in compliance with the policy
- 24 adopted by the OEB in 2015.²⁸ Rates for all other customer classes will continue to have both a
- 25 fixed component and a variable component based on consumption (kWh) or demand (kW).

²⁶ Please see Attachment 7-1-1(B): Cost Allocation Report.

²⁷ Ontario Energy Board, Report of the Board - Review of Electricity Distribution Cost Allocation Policy, EB-2010-0219

^{28 (}March 31, 2011).
29 28 Ontario Energy Board, *Board Policy - A New Distribution Rate Design for Residential Electricity Customers*,

³⁰ EB-2012-0410 (April 2, 2015).



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1 10. DEFERRAL AND VARIANCE ACCOUNTS

- 2 Hydro Ottawa proposes to clear Group 2 deferral accounts, including the Lost Revenue
- 3 Adjustment Mechanism ("LRAM") Account. The total net deferral and variance ("DVA") balance
- 4 proposed for disposition is \$(5,751,923), as originally submitted. Hydro Ottawa is proposing that
- 5 the Rate Riders for Group 2 Accounts (excluding LRAM) be disposed of over two years. For the
- 6 LRAM Variance Account, a one-year disposition period is proposed. As no Group 1 Accounts
- 7 are being requested for disposition at this time, the rate riders are the same for Regulated Price
- 8 Plan ("RPP") and non-RPP customers.

9

- 10 After accounting for 2019 actuals, Hydro Ottawa is proposing to clear Group 1 and Group 2
- 11 Accounts, including the LRAM Account. The total net DVA updated balance proposed for
- disposition is \$(6,695,545). Hydro Ottawa is proposing that the Deferral/Variance Accounts Rate
- 13 Riders for Group 1 and Group 2 Accounts be disposed of over two years. Disposition of all other
- 14 rate riders is requested over a one-year period.

15

- 16 Hydro Ottawa is proposing modifications to the following DVAs (for details, please refer to
- 17 Exhibit 9-2-1: New Deferral and Variance Accounts):

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- Uniform System of Account ("USofA") Sub-Account 1508 Connections Cost Recovery Agreement Payments Deferral Account
- USofA Sub-Account 1508 Capital Additions Revenue (excluding System Access)
 Differential Variance Account
- USofA Sub-Account 1508 System Access Capital Additions Revenue Requirement
 Differential Variance Account
 - USofA Sub-Account 1508 Earnings Sharing Mechanism Variance Account

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27 In addition, Hydro Ottawa is requesting that the following DVAs be discontinued:

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1508 Sub-Account - Energy East Consultation Costs



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- 1508 Sub-Account Pole Attachment Charge Revenues Variance Account
- 1508 Sub-Account Wireless Attachment Revenues Deferral Account
 - 1508 Sub-Account Y-Factor Variance Account
 - 1508 Sub-Account Gains/Losses from Sale of Existing Facilities Deferral
 - 1508 Sub-Account New Facilities Deferral Account

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7 The following Accounts were approved for discontinuance as part of Hydro Ottawa's 2016-2020 8 rate plan. However, clearance of final balances are being requested as part of this Application.

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- Account 1518 Retail Cost Variance Account Retail
- Account 1548 Retail Cost Variance Account STR

12

- 13 Further information regarding DVAs, the amounts proposed for clearance, and proposals for
- 14 new DVAs, please refer to UPDATED Exhibit 9-1-1: Summary of Current Deferral and Variance
- 15 Accounts, Exhibit 9-2-1: New Deferral and Variance Accounts, and UPDATED Exhibit 9-3-1:
- 16 Disposition of Deferral and Variance Accounts.

17

18 **11**. **BILL IMPACTS**

- 19 In developing its capital and OM&A budgets for the 2021-2025 period, Hydro Ottawa was
- 20 careful to have due regard for the impacts that bill increases may have on customers. The
- 21 utility's objective was to keep the total bill impacts for each of its customer classes as minimal
- 22 as possible.

- 24 The updated version of Table 15 below provides a summary of the total bill impacts for typical
- 25 customers in all classes and has been updated to account for 2019 actuals. Further details
- 26 regarding Hydro Ottawa's proposed bill impacts are available in UPDATED Exhibit 8-12-1.



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Table 15 – AS ORIGINALLY SUBMITTED – Summary of Bill Impacts

Data Class		Approved			Proposed		
Rate Class		2020	2021	2022	2023	2024	2025
	Distribution Charge	\$28.64	\$29.95	\$32.13	\$33.97	\$34.95	\$35.56
Residential	Change in Distribution Charge		\$1.31	\$2.18	\$1.84	\$0.98	\$0.61
(750 kWh)	% Distribution Increase		4.57%	7.28%	5.73%	2.88%	1.75%
	% Increase of Total Bill		1.32%	1.54%	1.28%	0.68%	0.43%
General	Distribution Charge	\$71.32	\$73.06	\$78.13	\$83.28	\$86.33	\$88.58
Service	Change in Distribution Charge		\$1.74	\$5.07	\$5.15	\$3.05	\$2.25
<50 kW	% Distribution Increase		2.44%	6.94%	6.59%	3.66%	2.61%
(2,000 kWh)	% Increase of Total Bill		0.65%	1.37%	1.37%	0.81%	0.59%
General	Distribution Charge	\$1,461.93	\$1,537.98	\$1,669.42	\$1,785.17	\$1,853.01	\$1,905.37
Service 50 kW -	Change in Distribution Charge		\$76.05	\$131.44	\$115.76	\$67.84	\$52.36
1.499 kW	% Distribution Increase		5.20%	8.55%	6.93%	3.80%	2.83%
(250 kW)	% Increase of Total Bill		1.59%	0.74%	0.65%	0.38%	0.29%
General	Distribution Charge	\$15,941.18	\$16,614.68	\$18,015.99	\$19,263.84	\$19,992.90	\$20,452.40
Service 1.500 kW -	Change in Distribution Charge		\$673.50	\$1,401.31	\$1,247.85	\$729.06	\$459.50
4,999 kW	% Distribution Increase		4.22%	8.43%	6.93%	3.78%	2.30%
(2,500 kW)	% Increase of Total Bill		1.53%	0.78%	0.69%	0.40%	0.25%
	Distribution Charge	\$48,420.32	\$53,922.32	\$58,287.22	\$62,092.67	\$64,292.42	\$65,709.17
Large Use	Change in Distribution Charge		\$5,502.00	\$4,364.90	\$3,805.45	\$2,199.75	\$1,416.75
(7,500 kW)	% Distribution Increase		11.36%	8.09%	6.53%	3.54%	2.20%
	% Increase of Total Bill		2.16%	0.79%	0.68%	0.39%	0.25%
	Distribution Charge	\$9.53	\$10.91	\$13.14	\$15.31	\$17.20	\$18.99
Sentinel Lighting	Change in Distribution Charge		\$1.38	\$2.23	\$2.17	\$1.89	\$1.79
(0.4 kW)	% Distribution Increase		14.46%	20.46%	16.54%	12.33%	10.44%
,	% Increase of Total Bill		7.36%	8.74%	7.83%	6.32%	5.65%
_	Distribution Charge	\$7.76	\$6.99	\$7.97	\$8.68	\$8.98	\$9.24
Street Lighting	Change in Distribution Charge		\$(0.77)	\$0.98	\$0.71	\$0.30	\$0.26
(1 kW)	% Distribution Increase		(9.98)%	14.07%	8.92%	3.46%	2.91%
,	% Increase of Total Bill		(1.10)%	3.16%	2.24%	0.96%	0.83%
Unmetered	Distribution Charge	\$17.08	\$17.49	\$19.55	\$21.37	\$22.67	\$23.82
Scattered	Change in Distribution Charge		\$0.41	\$2.06	\$1.82	\$1.30	\$1.15
Load	% Distribution Increase		2.42%	11.76%	9.33%	6.10%	5.07%
(470 kWh)	% Increase of Total Bill		0.98%	2.36%	2.05%	1.44%	1.26%

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Table 15 – UPDATED FOR 2019 ACTUALS – Summary of Bill Impacts

Data Class		Approved			Proposed		
Rate Class		2020	2021	2022	2023	2024	2025
	Distribution Charge	\$28.64	\$30.62	\$32.50	\$34.04	\$35.03	\$35.65
Residential	Change in Distribution Charge		\$1.98	\$1.88	\$1.54	\$0.99	\$0.62
(750 kWh)	% Distribution Increase		6.91%	6.15%	4.74%	2.91%	1.77%
	% Increase of Total Bill		1.53%	1.33%	1.38%	0.69%	0.43%
General	Distribution Charge	\$71.32	\$74.21	\$79.23	\$83.71	\$86.76	\$89.02
Service	Change in Distribution Charge		\$2.89	\$5.02	\$4.48	\$3.05	\$2.26
<50 kW	% Distribution Increase		4.05%	6.76%	5.65%	3.64%	2.60%
(2,000 kWh)	% Increase of Total Bill		0.69%	1.36%	1.52%	0.80%	0.59%
General	Distribution Charge	\$1,461.93	\$1,508.85	\$1,620.11	\$1,788.85	\$1,857.00	\$1,909.66
Service 50 kW -	Change in Distribution Charge		\$46.93	\$111.26	\$168.74	\$68.15	\$52.66
1,499 kW	% Distribution Increase		3.21%	7.37%	10.42%	3.81%	2.84%
(250 kW)	% Increase of Total Bill		2.96%	(1.08)%	1.20%	0.38%	0.29%
General	Distribution Charge	\$15,941.18	\$16,483.93	\$17,672.63	\$19,315.57	\$20,048.54	\$20,512.79
Service 1,500 kW -	Change in Distribution Charge		\$542.75	\$1,188.70	\$1,642.94	\$732.97	\$464.25
4,999 kW	% Distribution Increase		3.40%	7.21%	9.30%	3.79%	2.32%
(2,500 kW)	% Increase of Total Bill		2.94%	(1.01)%	1.18%	0.40%	0.25%
	Distribution Charge	\$48,420.32	\$53,055.32	\$56,727.95	\$62,069.06	\$64,275.56	\$65,702.06
Large Use	Change in Distribution Charge		\$4,635.00	\$3,672.63	\$5,341.11	\$2,206.50	\$1,426.50
(7,500 kW)	% Distribution Increase		9.57%	6.92%	9.42%	3.55%	2.22%
	% Increase of Total Bill		3.46%	(1.19)%	1.38%	0.39%	0.25%
	Distribution Charge	\$9.53	\$11.25	\$13.34	\$15.38	\$17.30	\$19.12
Sentinel Lighting	Change in Distribution Charge		\$1.72	\$2.10	\$2.04	\$1.91	\$1.82
(0.4 kW)	% Distribution Increase		18.02%	18.64%	15.32%	12.43%	10.53%
,	% Increase of Total Bill		8.47%	8.13%	7.62%	6.38%	5.71%
	Distribution Charge	\$7.76	\$7.46	\$8.08	\$8.80	\$9.11	\$9.38
Street Lighting (1 kW)	Change in Distribution Charge		\$(0.30)	\$0.62	\$0.72	\$0.31	\$0.27
	% Distribution Increase		(3.89)%	8.26%	8.94%	3.55%	3.00%
	% Increase of Total Bill		(0.22)%	1.96%	2.93%	0.99%	0.87%
Unmetered	Distribution Charge	\$17.08	\$17.68	\$19.38	\$21.25	\$22.55	\$23.70
Scattered	Change in Distribution Charge		\$0.60	\$1.71	\$1.86	\$1.30	\$1.15
Load	% Distribution Increase		3.54%	9.64%	9.61%	6.13%	5.10%
(470 kWh)	% Increase of Total Bill		0.92%	1.96%	2.42%	1.44%	1.26%



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UPDATED CUSTOMER SUMMARY

A copy of Hydro Ottawa's Customer Summary is attached below, in accordance with section 2.1.3 of the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019.

In this Schedule, Hydro Ottawa has presented bill impacts with respect to the distribution portion of bills for the residential and GS < 50 kW customer classes. As of January 1, 2020, Hydro Ottawa completed its transition to fully fixed rates for residential customers. Seeing as there is no longer a variable component in the distribution rates charged to residential customers, Hydro Ottawa has not utilized a consumption threshold in its presentation of distribution bill impacts for these customers.

The information related to bill impacts has been updated to account for 2019 actuals. In addition, total capital expenditures for 2021-2025 have been adjusted to reflect updates to the MiGen program, as described in updated section 2.3.3 of Attachment 2-4-3(E): Material Investments.

Understanding Hydro Ottawa's 2021-2025 Rate Application



ABOUT HYDRO OTTAWA

Hydro Ottawa is the third largest municipally-owned electricity distributor in Ontario. We distribute electricity to approximately 340,000 customers, serving a population of more than one million people in the City of Ottawa and the Village of Casselman. We are a private business corporation that is 100% owned by our shareholder, the City of Ottawa.

It's our responsibility to transport power from the provincial transmission grid and deliver it safely and reliably to homes and businesses across our service territory. We own and operate a large, complex distribution network consisting of 50,000 poles, 2,700 km of overhead lines, 3,000 km of underground cable, and 45,000 transformers.

OUR FIVE-YEAR BUSINESS PLAN

Hydro Ottawa is seeking approval from the Ontario Energy Board (OEB) for the distribution rates that will be charged to customers for the 2021-2025 period.

The electricity industry in Ontario is regulated by the OEB. One of the OEB's roles is to review the business and distribution plans of all electricity distributors and approve the rates that they charge customers.

Between 2016 and 2020, Hydro Ottawa invested in distribution system capacity as well as the replacement of aging infrastructure to maintain operational effectiveness and efficiency. Upgrades to our fibre optic network and Customer Care and Billing System were also a focus, in addition to consolidating employees in two new buildings from end-of-life facilities.

HOW DOES HYDRO OTTAWA PLAN?

Hydro Ottawa is proposing a plan that is responsive to:



Legal and regulatory requirements by continuing to meet our obligations.



Internal business planning based on expert analysis and professional judgment to develop construction and operations programs that address safety, business, technical, and operational needs.



Customer feedback collected throughout our consultation on the application and ongoing customer engagements.

Over the course of 2021 to 2025, Hydro Ottawa will need to continue to invest in our infrastructure, equipment, and workforce.

These needs are being driven by a diverse set of factors, such as aging infrastructure, sustained population and economic growth in the Ottawa area, an increasing number of severe weather events, technological evolution, cyber security threats, and workforce retirements. The plan forward includes major asset replacement and upgrades, vehicle replacements, systems and software for resource planning programs, data analytics, and productivity improvements.



To learn more about Hydro Ottawa's plan, please see Exhibit 1-1-9 Business Plan in the application.

As a result, key initiatives that we have planned include:

- Building new distribution stations in growing areas of the city
- Connecting thousands of new customers every year
- Supporting local infrastructure projects like Light Rail Transit
- Upgrading and modifying infrastructure to enhance reliability and capacity on the grid
- · Replacing equipment that has reached end-of-life
- Strengthening the grid's ability to withstand the effects of severe weather
- Investing in digital solutions to enhance customer service
- Renewing our vehicle fleet
- Recruiting and retaining a new generation of highly-skilled employees



HOW CUSTOMERS HELPED INFORM OUR PLAN

Our goal is to put the customer at the centre of everything we do. Hydro Ottawa is committed to engaging with our customers, understanding their needs and preferences, and operating in an efficient and cost effective manner. In preparing our business plan, we reached out directly to customers, to better understand their priorities and expectations for the electricity services they receive. Price, reliability, and investing in new technology ranked as the top three priorities.

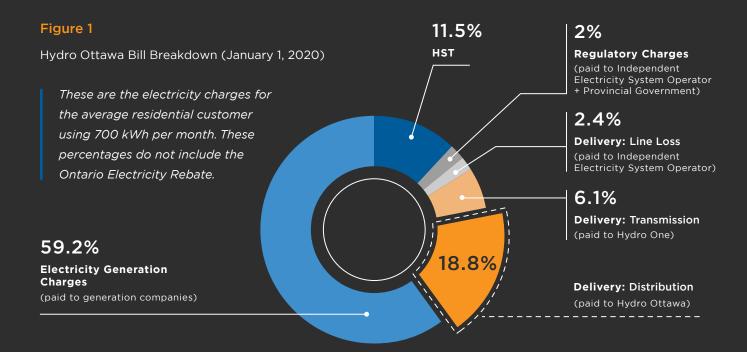
Together with the customer feedback that we receive on an ongoing basis, we took this input and developed a plan emphasizing four principles:

- 01 Minimize rate increases
- O2 Maintain reliability and service quality
- O3 Address key pressures to the distribution system
- Make prudent investments in emerging technologies to enhance service offerings and/or reduce operating costs

Nearly 21,000 customers shared their thoughts on our preliminary plan through the completion of an online survey. The majority of residential customers (83%), small business customers (76%), and mid-market and key account customers (69%) shared that they supported Hydro Ottawa's planned increase or even spending a bit more to improve service based on the priorities above.

To learn more on how Hydro Ottawa engages customers and responds to their needs, please see Exhibit 1-2-1 Customer Engagement in the application.

Electricity distributors like Hydro Ottawa are funded through the distribution rates paid by customers. We do not receive taxpayer money to fund our operations or investments in the distribution system. While Hydro Ottawa is responsible for collecting payment for the entire electricity bill, we retain only a portion of the delivery charge representing less than 20% of the bill.

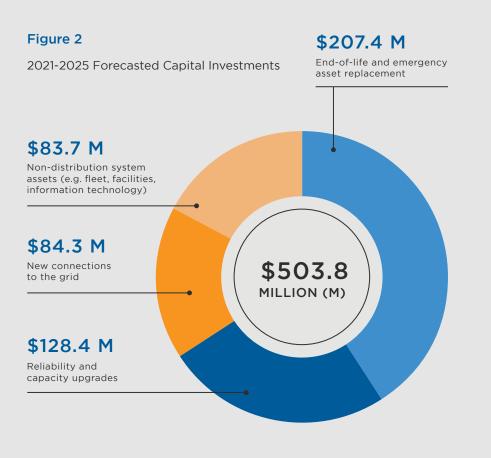


DOLLARS AND CENTS - EXPECTED COSTS OF THE PLAN

Like most businesses, Hydro Ottawa manages both a capital and an operating budget.

Capital expenditures are assets that have lasting benefits over many years (e.g. poles and wires), while operating expenditures are recurring expenses in day-to-day management of the company (e.g. tree trimming and billing).

For the 2021-2025 period, the capital required to maintain system reliability and safety, and invest in infrastructure and equipment priorities is \$503.8 million. For operations, a budget of \$493.8 million is needed.





In order to move forward with our proposals, we're seeking approval from the OEB to change our rates.

The expected impacts on the distribution portion of customer bills over the five-year rate period are shown in the table below.

Impacts on Customers' Distribution Rates

	Change in Distribution Charge	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	2025 Proposed	Average
Residential	\$/month	\$1.98	\$1.88	\$1.54	\$0.99	\$0.62	\$1.40
	Annual % Change	6.91%	6.15%	4.74%	2.91%	1.77%	4.49%
General Service (<50 kW)	\$/month	\$2.89	\$5.02	\$4.48	\$3.05	\$2.26	\$3.54
	Annual % Change	4.05%	6.76%	5.65%	3.64%	2.60%	4.54%

DELIVERING VALUE FOR MONEY - EXPECTED BENEFITS FOR CUSTOMERS

Moving forward on our five-year plan will enable us to maintain a high level of reliability for customers, while ensuring that we keep costs low and continuously improve the way we do business.

Some of the ways in which customers and communities are expected to benefit from the proposals in our plan include the following:

- Improved system reliability (fewer and shorter outages, quicker restoration times, enhanced resilience to severe weather)
- Greater electricity supply capacity for growing areas of the city
- Greater personalization, choice, convenience, and self-serve capability in the services provided to customers
- More options and solutions to help customers manage and monitor energy use with ongoing development of the Hydro Ottawa app and MyAccount
- · Stronger protections for grid assets and customer data against cyber threats
- · Increased ability to connect more renewable energy resources to the grid
- Lower costs, relative to alternative investment scenarios



HAVE YOUR SAY

The OEB will review
Hydro Ottawa's plan and
proposed rates in an open and
transparent public process.

For more information on how you can participate in that process, please visit hydroottawa.com/active-applications.





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UPDATED EXECUTIVE SUMMARY

2

1

3 1. INTRODUCTION

This Schedule provides a summary of Hydro Ottawa Limited's ("Hydro Ottawa" or "the utility") application to the Ontario Energy Board ("OEB") seeking approval of its proposed distribution rates and other charges for the five-year period of January 1, 2021 to December 31, 2025. This application ("Application") is submitted pursuant to section 78 of the *Ontario Energy Board Act,* 1998. In preparing this Application, Hydro Ottawa has been guided by the provisions set forth in the *Chapter 2, Chapter 3*, and *Chapter 5 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements"), as well as the *Handbook for Utility Rate Applications* issued in 2016.

12

Herein, Hydro Ottawa highlights the key elements of this Application. These include the business, capital, and operational plans that underpin the Application, and the corresponding funding that is required to enable the utility to continue providing efficient and reliable services, along with a first-class customer experience, to Hydro Ottawa customers. This Schedule likewise explains how these plans align with customer needs and expectations, as well as what types of impacts are expected on customers' bills. For details on the specific approvals that Hydro Ottawa is requesting from the OEB by way of this Application, please see UPDATED Exhibit 1-1-4: Administration and UPDATED Attachment 1-1-4(A): OEB Appendix 2-A - List of Requested Approvals.

22

This Application employs the Custom Incentive Rate-setting ("Custom IR") method and marks the second successive rate filing in which Hydro Ottawa has opted to avail itself of this particular rate-setting approach.

26

Looking ahead to the 2021-2025 term, Hydro Ottawa anticipates a sustained need to undertake significant levels of capital investment in its distribution system, in order to maintain reliability and service quality for its customers. This need is the result of several factors, including aging



Hydro Ottawa Limited EB-2019-0261 Exhibit 1 Tab 1 Schedule 8 UPDATED May 5, 2020 Page 2 of 33

infrastructure, an expanding customer base, continued growth across the City of Ottawa, and the effects of severe weather events. With respect to operational requirements, the utility likewise continues to face numerous pressures, such as ongoing shifts in consumer expectations for innovative services, the evolution of mission critical technologies, increased penetration of distributed energy resources ("DERs"), and workforce retirements. Together, these and other challenges are driving the need for investments and solutions which will ensure that overall system performance is maintained and customer preferences are met – all while safeguarding rates at a reasonable level. Accordingly, as described further below and elsewhere in this Application, the Custom IR method remains the most suitable rate-setting option to govern the approaching rate period for the utility.

11

The rate plan set forth in this Application builds upon the scope and success of the Custom IR plan that Hydro Ottawa has been implementing over the course of the 2016-2020 period. Numerous milestones have been achieved in the execution of this plan. Foremost was the roll-out of a multi-year Customer Experience Roadmap, which was anchored in the twin imperatives of putting the customer at the centre of everything that Hydro Ottawa does and facilitating a customer experience that is driven by customer choice. Among the flagship deliverables in this initiative were enhancements to the Customer Contact Centre (including becoming one of the first distributors in Ontario to expand its hours of operation into Saturdays), deployment of omni-channel capabilities and self-serve features to support customer communication through preferred channels, introduction of a mobile application, achievement of the highest level of customer participation in online billing of any distributor in Ontario, and the launch of voice-activated digital assistance through such devices as Amazon Alexa and Google Home (the first of its kind by any electric utility in Canada). Concurrent with the implementation of this roadmap, Hydro Ottawa consistently received high marks from its customers in the annual surveys that were commissioned to measure customer satisfaction with the utility.

27

28 Under its 2016-2020 rate plan, Hydro Ottawa has also crossed a new frontier in terms of operational effectiveness. As of the end of 2019, the utility was on track to successfully execute



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the largest multi-year capital expenditure plan in its history, with significant progress made in replacing a large portion of assets at the end of their useful lives, connecting new customers to the grid, and enhancing system capacity to keep pace with shifts in loads within the service territory. These expenditures have translated into improved system reliability and performance, with the utility having consistently met or exceeded its reliability targets over the 2016-2018 timeframe. In fact, over the course of 2016-2018, Hydro Ottawa met or exceeded each of the measures in the annual Electricity Utility Scorecard for which a target had been assigned, with 100% of those measures showing performance improvement or consistent trending. Moreover, the outage management and emergency restoration capabilities of the utility were put to the test during several significant extreme weather events – the most damaging of which was the unprecedented series of tornadoes that touched down in Hydro Ottawa's service territory in September 2018. While challenging, these events nevertheless presented the opportunity for the utility to demonstrate its organizational and operational strength, depth, and maturity. The positive response from customers and the community attested to the success of these efforts.

15

Hydro Ottawa also successfully completed a once-in-a-generation project to consolidate the majority of its employees into new administrative and operations facilities. This project was executed pursuant to approval granted by the OEB in its Decision and Rate Order on Hydro Ottawa's 2016-2020 Custom IR application. For more background information, including a detailed justification of the prudency of the costs incurred by the utility in the completion of this project, please see UPDATED Attachment 2-1-1(A): New Administrative Office and Operations Facilities.

23

4 Other noteworthy performance outcomes from 2016-2020 included the following:

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27

 Productivity gains through cost containment and increased automation of business processes;²

²⁸ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).

 ² Several productivity initiatives have enabled Hydro Ottawa to seek a reduction in specific customer charges for the
 ² Several productivity initiatives have enabled Hydro Ottawa to seek a reduction in specific customer charges for the
 ² 2021-2025 rate term. Please see UPDATED Exhibit 8-7-1: Specific Service Charges for details.



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- Successful delivery of conservation programs to customers;
- Greater efficiencies in maintenance and construction work;
- Upgrades to core business systems (including migration to cloud-based platforms);
 - Implementation of a formal cyber security program;
 - Replenishment of the workforce through execution of a Talent Management Strategy;
- Expansion of the fibre telecommunications network to connect field area devices with
 select substations; and
 - Financial returns consistent with approved Return on Equity ("ROE") levels.

9

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10 It merits observation that Hydro Ottawa achieved the aforementioned outcomes and their 11 attendant benefits against the backdrop of approximately 6.0% growth in total customer count 12 during the 2016-2020 period, and of successful efforts to ensure no net increase in overall 13 permanent full-time employee headcount.

14

In light of its best-in-class performance in many areas, Hydro Ottawa received numerous industry and professional awards during the 2016-2020 period, with recognition extended in the contexts of customer programs, human resources and safety innovation, corporate social responsibility, and best employer (among others).

19

Hydro Ottawa is confident that the accomplishments of the 2016-2020 rate term will position the utility for continued success in delivering value to customers and meeting their needs for reliable, responsive, and cost-effective services over the upcoming five-year period. As they did in the preceding rate plan, customer engagement, continuous improvement, and performance measurement will remain hallmarks of Hydro Ottawa's planned activity for 2021-2025. Productivity expectations and initiatives are embedded throughout the plans underpinning this Application, alongside a robust framework for tracking and measuring outcomes, much of which is informed by the benchmarking of Hydro Ottawa's performance in several key program areas.



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1 2. ABOUT HYDRO OTTAWA

2 Hydro Ottawa is licensed by the OEB to distribute electricity to approximately 340,000 customers, as of the end of 2019, within the City of Ottawa and the Village of Casselman. By number of customers, Hydro Ottawa is the third largest municipally-owned electricity distributor in Ontario. Its service territory covers 1,116 square kilometres and is comprised of a dense urban core, large areas of suburban development, and a vast rural area that represents 60% of the overall footprint.

8

9 Hydro Ottawa and its predecessor utilities have proudly served communities in the National 10 Capital Region for over 100 years. The utility's unique customer base includes residential 11 customers, commercial businesses, farms, and large institutional and industrial customers. As 12 the national seat of government, Ottawa is home to the federal parliament and key institutions 13 within the Government of Canada. Moreover, in terms of population, the city serves as the 14 second largest in the Province of Ontario and the sixth largest in the country.

15

In its current corporate structure, Hydro Ottawa serves as the successor to five utilities which consolidated in the year 2000 (Ottawa Hydro, Kanata Hydro, Gloucester Hydro, Nepean Hydro, and Goulbourn Hydro), following the amalgamation of several municipalities in the region and the formation of the City of Ottawa. In 2002, the service territory of Casselman Hydro was acquired.

21

Hydro Ottawa is a wholly-owned subsidiary of Hydro Ottawa Holding Inc., which is 100% owned by the City of Ottawa and governed by an independent Board of Directors.

24

25 3. HYDRO OTTAWA'S BUSINESS PLAN

In accordance with the OEB's *Handbook for Utility Rate Applications*, Hydro Ottawa has prepared a formal Business Plan that serves as the basis for the utility's overall strategy and goals, elucidates the intersection between these goals and the proposals set forth in this Application, and speaks to the benefits that will accrue to customers as a result of the plan's



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1 execution. This Business Plan was approved by Hydro Ottawa's Board of Directors on

2 November 28, 2019 and is included in this Application as **UPDATED** Exhibit 1-1-9.

3

4 3.1 CORPORATE VISION & STRATEGIC OBJECTIVES

- 5 Hydro Ottawa's vision is to serve as a leading partner in a smart energy future and as the 6 trusted energy advisor for customers. In order to achieve this vision, the utility has organized its
- 7 business strategy for several years around four critical areas of focus and their accompanying
- 8 strategic objectives. Hydro Ottawa will maintain continuity in these core objectives heading into
- 9 the 2021-2025 period. The key rationale for this approach is the level of success achieved
- 10 during the preceding five-year rate term, as well as the trajectory of the business and policy
- 11 landscape in which Hydro Ottawa operates.

12

- 13 Accordingly, as denoted in Figure 1 below, the business objectives that will guide Hydro
- 14 Ottawa's activities and investments throughout the 2021-2025 rate period will be the following:

15 16

• **Customer Value:** we will deliver value across the entire customer experience by providing reliable, responsive, and innovative services at competitive rates.

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• **Financial Strength:** we will create sustainable growth in our business and our earnings by improving productivity and pursuing business growth opportunities that leverage our strengths – our core capabilities, our assets, and our people.

2223

 Organizational Effectiveness: we will achieve performance excellence by cultivating a culture of innovation and continuous improvement.

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• Corporate Citizenship: we will contribute to the well-being of the community by acting at all times as a responsible and engaged corporate citizen.



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1

Figure 1 – Corporate Strategic Objectives



2

- 3 Of these objectives, the most important driver for Hydro Ottawa's business strategy will remain
- 4 Customer Value, with the utility striving to put the customer at the centre of everything it does.

5

6 3.2 ALIGNMENT WITH THE RENEWED REGULATORY FRAMEWORK

7 The primary objectives animating Hydro Ottawa's corporate vision are wholly consistent with the 8 main performance outcomes promoted under the OEB's Renewed Regulatory Framework 9 ("RRF"). Hydro Ottawa views this broad alignment as a competitive advantage and remains 10 committed to firmly entrenching RRF principles and objectives throughout its operations and

12

11 business.

Table 1 below illustrates the alignment between the utility's overarching objectives and the key categories of performance outcomes under the RRF. For additional context, the table also shows the congruence of Hydro Ottawa's high-level performance goals and strategic outcomes – which are utilized to measure progress in achieving the strategic objectives – with the RRF's areas of focus.



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Table 1 – Alignment of Hydro Ottawa's Corporate Areas of Focus and Strategic Objectives with the OEB's RRF Performance Outcomes

ОЕВ		Hydro Ottawa	
RRF Performance Outcomes	Key Area of Focus	Corporate Performance Goal	Strategic Outcome
Customer Focus	Customer Value	 Assist customers in managing their energy consumption and electricity costs Deliver on customer expectations for service quality and responsiveness Maintain overall distribution system reliability 	Customer loyalty and satisfaction
Operational Effectiveness	Organizational Effectiveness	Continue to enhance operational performance and productivity Maintain leading health and safety record Enhance organizational and employee capability	 Efficient and effective operations Safe and healthy work environment Engaged, aligned and prepared workforce
Public Policy Responsiveness	Corporate Citizenship	 Enhance our brand image in the community and the industry Continue to improve our environmental performance and reduce our impact on the environment 	 Leading governance and business practices Engaged stakeholders Safe, secure and environmentally responsible services Positive community impact
Financial Performance	Financial Strength	Grow revenues from new sources Enhance / protect revenues from existing business lines	Growth in shareholder value

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1

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- 4 Further detail with respect to Hydro Ottawa's alignment with the RRF can be found in UPDATED
- 5 Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.

6

7 3.3 CUSTOMER ENGAGEMENT

- 8 The integration of customer feedback and providing customers with value for money serve as
- 9 cornerstones of Hydro Ottawa's business planning. In step with its overall business strategy to
- 10 put the customer at the centre of everything it does, the utility endeavours to ensure that its
- 11 capital and operational investment plans are guided and informed by customer needs,
- 12 preferences, and priorities.



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1 Hydro Ottawa avails itself of numerous tools, activities, and interactions to engage customers 2 and to reflect their input in the utility's planning and plans. Foremost among these are the engagement initiatives that are administered on an ongoing basis. These represent an evergreen posture on Hydro Ottawa's part to develop a genuine understanding of customers' interests through a fluid and continuous feedback loop, which helps inform and sharpen the utility's service delivery as a matter of established routine. Several of these activities are in line 7 with industry best practice, such as an annual customer satisfaction survey, formal Key Accounts program, and engagement in numerous social media platforms. Other activities are homegrown, having been formulated and customized to suit the particular needs of the utility and its unique customer base. These include project-specific consultations that are hosted by Hydro Ottawa when major distribution system projects have the potential to impact customers and their community. Based on customer feedback, these consultations have resulted in the evaluation of additional design options, the use of less impactful equipment, and/or the collaborative scheduling of mutually agreeable timelines for project completion. Other examples include surveys that are conducted each month of customers who contact Hydro Ottawa's contact centre. Each customer is contacted and invited to rate their customer service experience. Through analysis and monitoring of these results, Hydro Ottawa is able to identify areas for improvement and adapt its processes to respond to customer preferences.

19

As a complement to the foregoing activities, Hydro Ottawa undertook targeted customer outreach to inform the development of the specific plans and proposals set forth in this Application. Consisting of a mix of qualitative and quantitative methodologies, this engagement was launched in January 2019 and extended through September 2019.

24

The initial phase yielded consistent findings across low-volume customer classes – namely, that reliability, prices, and investment in new technology constituted the top three priorities for customers. Moreover, these customers generally held favourable views on making proactive investments in aging infrastructure and grid modernization at the present time, with the understanding that this may lead to near-term costs but will result in future savings.



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Based upon the feedback received during Phase I, Hydro Ottawa undertook a second, more expansive phase of engagement, in which the utility surveyed customers for their detailed feedback on proposed plans for capital and operational investments over the 2021-2025 period. A series of expenditure options were presented – namely, a reference case outlining the utility's proposed course of action, along with scenarios which either accelerated and expanded the proposal, or which scaled back the scope and timing of the proposal. Customers were thus able

7 to express their views on a range of alternative proposals, as well as the respective trade-offs,

8 outcomes, and rate impacts.

9

Ultimately, the response from customers in all classes was heavily weighted in support of Hydro
Ottawa's proposed plans or spending more than proposed for certain services. Nearly one-half
of respondents in the residential, small business, and mid-market and Key Account classes
(48%, 47%, and 46%, respectively) identified that Hydro Ottawa should maintain the forecasted
annual increase to deliver a program which focuses on the stated priorities. An additional 35%,
29%, and 23% of customers in these segments, respectively, expressed support for further
improvements in service, even if this entailed additional rate increases.

17

Of note, the number of customers who participated in this engagement exercise – nearly 21,000 in total – was the largest in the history of any Hydro Ottawa rate application. In itself, this result was encouraging and instilled confidence in the quality of the information gleaned and the representativeness of the sample pool of customers. Beyond this, however, Hydro Ottawa was buoyed by the fact that the rate of response (i.e. number of respondents as a percentage of the total customer base) exceeded that which was observed in the most recent rate filings from the three largest distribution utilities in Ontario.³ In fact, according to the external vendor retained by Hydro Ottawa to help execute the customer consultation process, the utility's engagement

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29 EB-2019-0018 (May 28, 2019).

²⁶ ³ Hydro One Networks Inc., 2018-2022 Custom Incentive Rate-setting Distribution Rate Application, EB-2017-0049

^{27 (}March 31, 2017); Toronto Hydro-Electric System Limited, 2020-2024 Custom Incentive Rate-setting Distribution Rate

²⁸ Application, EB-2018-0165 (August 15, 2018); and Alectra Utilities Inc., 2020 Electricity Distribution Rate Application,



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- 1 represented the single largest proportion of customers ever engaged by an electricity distributor
- 2 in Ontario for the purpose of informing the development of a rate application.⁴

3

- 4 Based upon customer feedback, Hydro Ottawa has crafted capital and operational plans that
- 5 emphasize the following four core principles:

6 7

8

11

- Minimize rate increases
- 2. Maintain reliability and service quality
- 9 3. Address key pressures to the system, including:
- Aging infrastructure
 - An expanding customer base and continued population growth
- The effects of severe weather events
- Make prudent investments in emerging technologies to enhance service offerings
 and/or reduce operation costs

15

- 16 Additional information on the portfolio of Hydro Ottawa's customer engagement activities, as
- 17 well as the targeted activities undertaken to consult customers on the development of this
- 18 Application, is available in Exhibit 1-2-1: Customer Engagement Overview and Exhibit 1-2-2:
- 19 Customer Engagement on the 2021-2025 Rate Application.

20

21 3.4 DISTRIBUTION SYSTEM PLAN

- 22 Hydro Ottawa's Distribution System Plan ("DSP") represents the culmination of multiple internal
- 23 and external planning processes related to business strategy, customer engagement, capital
- 24 investment, asset management, and regional planning. The DSP details how distribution system
- 25 expenditures will be prioritized, paced, and optimized, while minimizing rate impacts for
- 26 customers and facilitating continuous improvement and productivity.

27

28 The DSP in its entirety can be viewed in Exhibit 2-4-3.

- -

²⁹ ⁴ Attachment 1-2-2(A): Customer Engagement Report, page 2.



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1 3.5 PERFORMANCE MANAGEMENT AND MEASUREMENT

- 2 Hydro Ottawa is committing to a robust performance measurement and reporting framework for
- 3 the upcoming five-year rate period. This framework expands and builds upon the success of the
- 4 one that was in place for 2016-2020, and will maintain the approach of combining standard OEB
- 5 performance measures with others that are customized for Hydro Ottawa's unique use.

- 7 An integral component of this framework is the set of measures that will form the basis of Hydro
- 8 Ottawa's 2021-2025 Custom Performance Scorecard (see Table 2 below). These measures
- 9 have been selected based upon a variety of factors and drivers, including responsiveness to
- 10 customer preferences, alignment with core RRF and corporate strategic objectives, and
- 11 correlation to key findings from the benchmarking analyses performed in support of this
- 12 Application.



1

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Table 2 - Custom Performance Scorecard Measures for 2021-2025

Outcome	OEB Reporting Category	Hydro Ottawa Custom Measures	New/Existing	Target
	Customer Satisfaction	Contact Centre Satisfaction – Transactional Feedback	New	Maintain
Customer Focus		Number of MyAccount Customers	New	Increase
	Cationaction	Number of Online Billing Accounts	New	Increase
Safety		All Injury/Illness Frequency Rate	New	Reduce
	Salety	Lost Workday Severity Rate	New	Reduce
		Customer Average Interruption Duration Index	Existing	Monitor
		Feeders Experiencing Multiple Sustained Interruptions	Existing	Maintain
		Worst Feeder Analysis – Number of Feeders with Very Poor Performance	Existing	Reduce
		Stations Exceeding Planning Capacity	Existing	≤5%
	System Reliability	Feeders Exceeding Planning Capacity	Existing	≤10%
		Stations Approaching Rated Capacity	Existing	0%
Operational Effectiveness		Feeders Approaching Rated Capacity	Existing	0%
	Cost Control	Productive Time	Existing	Maintain
		Labour Allocation	Modified	Maintain
		3-Year Average Cost per Pole – Wood Pole Replacement	New	Monitor
		3-Year Average Cost per Meter – Underground Cable	New	Monitor
		Average Cost per Kilometer – Vegetation Management	New	Monitor
		Average Cost per Pole – Pole Test and Inspection	New	Monitor
	Asset Efficiency	Technology Infrastructure Cost per Employee	New	Monitor
B 10 B 0		Annual Oil Spills & Costs of Remediation	Existing	Reduce
Public Policy Responsiveness	Environment	Non-Hazardous Waste Diversion Rate	New	Maintain
		Percentage of Green Suppliers	New	Maintain
		OM&A per Customer	New	Monitor
Financial	Financial Metrics	Bad Debt as a Percentage of Total Electricity Revenue	New	Monitor
Performance	Tillariolar Wictiles	Cumulative Capital Additions per Investment Category	New	Monitor
		Annual Capital Spending per Investment Category	New	Monitor

- 3 This proposed reporting regime is intended to equip the OEB, customers, and other
- 4 stakeholders with the ability to better monitor and understand diverse aspects of Hydro Ottawa's



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1 performance, and to demonstrate the utility's accountability in transparently communicating the

2 outcomes achieved under its performance management framework.

3

4 3.6 BENCHMARKING

5 The preparation of Hydro Ottawa's business plan was supported by year-over-year comparisons

6 of Hydro Ottawa's costs and outcomes, along with evaluations of the utility's performance

7 against its peers. The scope and substance of particular capital and operational programs were

8 shaped, in part, by the analysis of trends in the achievement of system reliability, customer

9 value, and financial strength outcomes. Similarly, the benchmarking of Hydro Ottawa's

10 expenditures and performance relative to samples of utilities across Ontario, Canada, and the

11 United States has yielded valuable insights into areas in which the utility performs well and

12 those in which there is room for improvement.

13

14 To help inform the development of its business plan, the utility commissioned the following

15 benchmarking studies from third-party experts:

1617

Table 3 – Benchmarking Studies Filed in this Application

Benchmarking Review	External Consultant	Application Attachment
Econometric Benchmarking Study of Hydro Ottawa's Total Cost and Reliability	Clearspring Energy Advisors	Attachment 1-1-12(A)
Unit Costs Benchmarking Study	UMS Group	Attachment 1-1-12(B)
IT Budget Assessment Benchmark	Gartner	Attachment 1-1-12(F)
2019 Market Benchmarking	Mercer Canada	Attachment 1-1-12(G)

18

19 The results from these studies consistently revealed that Hydro Ottawa is a strong performer

20 relative to its peers in numerous categories, and that the utility is well-positioned to sustain

21 ongoing improvements in key areas of performance.



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1 These findings have been internalized and incorporated into specific work programs, and will

2 serve as important baselines and points of reference against which to measure the utility's

progress. 3

4

PRODUCTIVITY & CONTINUOUS IMPROVEMENT

6 Responsibly controlling costs and focusing on cost-effective delivery of outcomes that matter to 7 customers remain core priorities for Hydro Ottawa. Amidst the unique and challenging confluence of compounding demands, pressures, and constraints on operations, the utility is placing increased emphasis on incorporating productivity and continuous improvement gains, so as to offset increasing expenditures and boost organizational capacity. Hydro Ottawa has adopted numerous controls to provide the OEB, customers, and other stakeholders with robust assurance that productivity, cost control, and continuous improvement objectives have been firmly integrated into the utility's business planning process, and the resultant capital and 14 operational plans, for the 2021-2025 rate period.

15

16 For information on the range of productivity and continuous improvement activities that are planned over the course of the upcoming rate term, please see Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives.

19

HYDRO OTTAWA'S CUSTOM IR APPLICATION 20 4.

As noted in the OEB's 2012 report entitled Renewed Regulatory Framework for Electricity Distributors: A Performance-Based Approach ("RRFE Report"), the Custom IR method is "intended to be customized to fit the specific applicant's circumstances" and "may be 24 appropriate for distributors with significantly large multi-year or highly variable investment

25 commitments with relatively certain timing and level of associated expenditures."6

²⁶ Ontario Energy Board, Report of the Board - Renewed Regulatory Framework for Electricity Distributors: A

²⁷ *Performance-Based Approach* (October 18, 2012), page 19. 28 ⁶ *Ibid*, page 14.



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1 4.1. PRINCIPAL DRIVERS JUSTIFYING THE USE OF CUSTOM IR

The foregoing description of the suitable context for employing the Custom IR option is one which remains applicable to Hydro Ottawa, as it prepares to enter into a new five-year rate period. The results of the utility's asset management and network investment planning processes have confirmed that significant capital investments are required over the course of 2021-2025, in order to ensure Hydro Ottawa is able to deliver safe and reliable electricity service and to meet the needs and expectations of customers.

8

9 The drivers underlying this need are numerous. For starters, while the overall profile of Hydro Ottawa's asset demographic is positive, a major segment of the asset population (19%) has 11 reached its expected service life and thus poses a higher risk of failure. This includes 12 approximately 51% of stations and 23% of overhead system assets (i.e. poles, transformers, 13 and switches). Alongside these asset demographic figures, the utility's asset demographic 14 ratings show that 17% of assets are in Poor or Very Poor condition.⁷

15

What's more, the City of Ottawa continues to experience steady year-over-year growth, with municipal policy promoting the development of new residential subdivisions and business parks, as well as intensification in urban areas.

19

In addition, an increase in storms and severe weather events is placing greater stress on the system, with an upward trend over the last five years in the number of outages caused by adverse weather. During a six-month span in 2018 alone, there were three major weather events that affected the Ottawa area (tornadoes, flooding, and freezing rain), which in turn caused considerable damage to the system and heavily impacted spending in emergency replacement of assets.

-

Please see Exhibit 2-4-3: Distribution System Plan for more information on the demographics and condition of the
 utility's assets.



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1 4.2. CAPITAL EXPENDITURES

2 Hydro Ottawa developed its forecasted capital expenditures for the years 2021-2025 based 3 upon an identification and analysis of system needs, customer expectations, and requirements 4 for general plant capital. The total capital expenditure forecast underwent a number of iterations 5 and refinements, in order to address issues of priority, customer preference, rate and bill

6 impacts, resource capacity, and financing capability.

7

In response to feedback expressed by customers, appropriate parameters and constraints have been incorporated to limit the costs and impacts on bills associated with planned capital investments. In its customer engagement activities, Hydro Ottawa heard a recurring preference for reliability to be maintained or improved at minimal or no increased cost. As a result, the utility has created a capital plan that paces investments in order to minimize rate impacts, with a focus on continuous improvement with respect to the efficiency and productivity of distribution planning and plan implementation.

15

One practical effect of this approach is that the proposals set forth in this Application do not encompass all of the investments that Hydro Ottawa would deem to be worthwhile for purposes of optimally fulfilling system needs during the 2021-2025 period.⁸ Nevertheless, Hydro Ottawa is confident that the portfolio of capital investments that ultimately emerged from its prioritization and calibration process will enable strong performance of the system and will serve customers' interests effectively.

22

As originally submitted, Hydro Ottawa's capital expenditure plan for the 2021-2025 period proposes an average annual expenditure of \$100.7M per year, with this figure having been slightly adjusted to \$100.8M per year based on 2019 actuals, as follows:

 ⁸ As explained further in UPDATED Exhibit 2-4-1: Capital Expenditure Summary, the process undertaken by the utility
 to rationalize its initial asset needs forecast resulted in a reduction in the 2021-2025 capital expenditure forecast of
 approximately \$50.0M per year.



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Table 4 – AS ORIGINALLY SUBMITTED – Summary of 2021-2025 Capital Expenditures (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$31.0	\$27.4	\$24.3	\$25.2	\$23.9	\$26.4
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(41.3)	\$(25.2)	\$(19.9)	\$(19.2)	\$(19.3)	\$(25.0)
TOTAL	\$121.8	\$98.9	\$89.6	\$97.2	\$96.0	\$100.7

4 Table 4 – UPDATED FOR 2019 ACTUALS – Summary of 2021-2025 Capital Expenditures (\$'000,000s)⁹

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$26.7	\$28.3	\$24.3	\$25.2	\$23.9	\$25.7
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(39.2)	\$(23.5)	\$(19.9)	\$(19.2)	\$(19.3)	\$(24.2)
TOTAL	\$119.5	\$101.5	\$89.6	\$97.2	\$96.0	\$100.8

7 For more detail on 2021-2025 capital funding requirements, please refer to Hydro Ottawa's DSP

8 and associated attachments in Exhibit 2-4-3.

0 4.3. OPERATIONS, MAINTENANCE & ADMINISTRATION EXPENDITURES

Hydro Ottawa's duties to manage a safe and reliable distribution system, serve customers in a manner that is responsive to their needs and preferences, and maintain compliance with a broad range of legislative and regulatory requirements compel the utility to incur a level of costs that is proportionate to the magnitude of its operational obligations. Responsibly controlling

The changes reflected in the updated version of Table 4 for 2021 and 2022 are the result of updates to the MiGen project, as described in updated section 2.3.3 of Attachment 2-4-3(E): Material Investments.

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

9

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- 1 these costs and focusing on cost-effective delivery of outcomes therefore remain core priorities
- 2 for the utility. What's more, the critical importance of cost control is magnified against the
- 3 backdrop of the evolution underway across the broader North American electricity sector, which
- 4 is forcing utilities to modernize aspects of their service delivery models in order to adapt to the
- 5 increased complexity of system operations, the changing expectations of customers, and the
- 6 shifting economics of the marketplace.

7

- 8 It is important to understand Hydro Ottawa's proposed operations, maintenance, and
- 9 administration ("OM&A") expenditures for the years 2021-2025 in the context of OM&A costs for
- 10 the 2016-2020 Custom IR rate period, as presented in Table 5 below.

11

12 Table 5 – AS ORIGINALLY SUBMITTED – Historical, Bridge, and Test Year OM&A Costs by Major OM&A Category (\$'000s)

		Historical		Brid	ge	Test	
OM&A Category	2016	2017	2018	2019	2020	2021	CAGR ¹⁰
Operations	\$18,399	\$18,860	\$20,877	\$22,398	\$23,824	\$22,924	4.5%
Maintenance	\$9,739	\$10,299	\$9,125	\$8,653	\$9,767	\$9,855	0.2%
Subtotal	\$28,138	\$29,158	\$30,003	\$31,050	\$33,591	\$32,779	3.1%
Billing and Collecting	\$12,594	\$12,745	\$11,941	\$10,220	\$12,052	\$12,711	0.2%
Community Relations	\$5,290	\$5,120	\$4,759	\$5,131	\$5,895	\$6,365	3.8%
Subtotal	\$17,884	\$17,865	\$16,700	\$15.352	\$17,946	\$19,076	1.3%
Administrative and General	\$36,599	\$35,222	\$40,161	\$41,143	\$40,453	\$42,068	2.8%
TOTAL OM&A EXPENSES ¹¹	\$82,621	\$82,245	\$86,863	\$87,545	\$91,990	\$93,923	2.6%

14

¹⁶ CAGR represents the compound annual growth rate between 2017 and 2021.

^{17 &}lt;sup>11</sup> Totals may not sum due to rounding.



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1 Table 5 – UPDATED FOR 2019 ACTUALS – Historical, Bridge, and Test Year OM&A Costs by Major OM&A Category (\$'000s)

		Hist	orical		Bridge	Test	
OM&A Category	2016	2017	2018	2019	2020	2021	CAGR ¹²
Operations	\$18,399	\$18,860	\$20,877	\$20,863	\$23,824	\$22,924	4.5%
Maintenance	\$9,739	\$10,299	\$9,125	\$7,693	\$9,767	\$9,855	0.2%
Subtotal	\$28,138	\$29,158	\$30,003	\$28,556	\$33,591	\$32,779	3.1%
Billing and Collecting	\$12,594	\$12,745	\$11,941	\$10,873	\$12,052	\$12,711	0.2%
Community Relations	\$5,290	\$5,120	\$4,759	\$4,796	\$5,895	\$6,365	3.8%
Subtotal	\$17,884	\$17,865	\$16,700	\$15,670	\$17,946	\$19,076	1.3%
Administrative and General	\$36,599	\$35,222	\$40,161	\$38,887	\$40,453	\$42,068	2.8%
TOTAL OM&A EXPENSES ¹³	\$82,621	\$82,245	\$86,863	\$83,113	\$91,990	\$93,923	2.6%

4 Based on the proposed costs for the 2021 Test Year, OM&A expenditures for the remaining

5 years of the 2021-2025 Custom IR period have been calculated through the application of an

6 escalation factor, which is discussed in further detail in section 4.4 below. The result is the

7 breakdown of OM&A costs shown in Table 6.

Table 6 – Annual OM&A Program Expenditures for 2021-2025 (\$'000s)

2021	2022	2023	2024	2025
\$93,923	\$96,280	\$98,697	\$101,174	\$103,714

11 Hydro Ottawa's proposed OM&A costs over the 2021-2025 term translate into an average 12 annual expenditure of \$98.8M.

14 Of note, during the internal budgeting process, the initial levels of OM&A submitted by the

15 various Divisions within the utility resulted in a compound annual growth rate ("CAGR") of 3.5%

16 over the 2021-2025 period. In step with its commitment to continuous improvement and with

17 12 CAGR represents the compound annual growth rate between 2017 and 2021.

^{18 &}lt;sup>13</sup> Totals may not sum due to rounding.



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1 customer preferences for minimizing rate increases, Hydro Ottawa then applied a custom

2 OM&A escalation factor to contain upward pressure on operational expenses and to embed

3 productivity expectations throughout the 2021-2025 period. This lowered the overall OM&A

4 CAGR to 2.51% and achieved a reduction of \$13.1M in OM&A spending over the course of the

5 rate term.

6

7 For additional information on Hydro Ottawa's OM&A programs, cost drivers, and year-over-year

8 variances, please see **UPDATED** Exhibit 4-1-1: Operations, Maintenance and Administration

9 Summary and UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost

10 Drivers and Program Variance Analysis.

11

12 4.4. CUSTOM PRICE ESCALATION FACTOR

As established by the RRF, under a price cap form of incentive rate-setting, rates are adjusted using a formulaic approach in the years following the first year base rates. This formula consists of a two-component Price Cap Index ("PCI"): inflation and productivity. For electricity distributors, the formula includes an industry-specific inflation factor and two factors for productivity. One productivity factor is a fixed amount for industry-wide productivity, and the other is a stretch factor which is set each year based on the level of productivity the distributor has achieved as evaluated by the Pacific Economics Group ("PEG") econometric model.

20

1 Under a Custom IR approach, the annual rate adjustment must be based on a custom index

22 supported by empirical evidence that can be tested. The annual adjustment must include explicit

financial incentives for continuous improvement and cost control targets. As noted in the OEB's

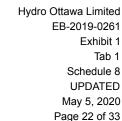
24 Handbook for Utility Rate Applications, "these incentive elements, including a productivity factor,

25 must be incorporated through a custom index or an explicit revenue reduction over the term of

26 the plan (not built into the cost forecast)."14

27

²⁸ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 25.





As a result, for years two through five of its upcoming rate term (i.e. 2022-2025), Hydro Ottawa is proposing to adopt a Custom Price Escalation Factor ("CPEF") framework, which is based on the approach approved by the OEB in Hydro Ottawa's 2016-2020 Custom IR application. This framework is aligned with OEB policy and based on sound ratemaking principles, and incorporates the OEB's key principles and expectations of a Custom IR application.

6

7 Hydro Ottawa is proposing that OM&A costs in years two through five of its rate term be adjusted by the CPEF, on an annual basis, as follows:

9

10 **CPEF = I - X + G**

11

12 where

13

14 "I" is the inflation factor

15 "X" is the two-component productivity factor

16 "G" is the growth factor

17

18 Using this formula, Hydro Ottawa has determined that the CPEF will be 2.51%.

19

20 A more detailed explanation of the CPEF and the evidence supporting the use and assigned

21 value of each factor is included in **UPDATED** Exhibit 1-1-10: Alignment with the Renewed

22 Regulatory Framework.

23

24 **4.5. RATE BASE**

- 25 As originally submitted, Hydro Ottawa's requested rate base for the 2021 test year is \$1,219M,
- 26 which represents an increase of approximately \$244.8M or 25% over the OEB-approved rate
- 27 base for the 2020 Bridge Year. After accounting for 2019 actuals, Hydro Ottawa is revising its
- 28 requested rate base for the 2021 test year to \$1,231M. This represents an increase of

²⁹ ¹⁵ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015), page 1.



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approximately \$256.9M or 26% over the OEB-approved rate base for 2020. Table 7, as updated

2 below, identifies the rate base requested for each year during the 2021-2025 period. Please

3 refer to UPDATED Exhibit 2-1-1: Rate Base Overview for further details.

Table 7 – AS ORIGINALLY SUBMITTED – Summary of Rate Base (\$'000s)

	2021	2022	2023	2024	2025
Rate Base	\$1,218,659	\$1,303,922	\$1,349,619	\$1,376,805	\$1,419,763

Table 7 – UPDATED FOR 2019 ACTUALS – Summary of Rate Base (\$'000s)

	2021	2022	2023	2024	2025
Rate Base	\$1,230,736	\$1,315,708	\$1,363,582	\$1,390,890	\$1,433,972

9 4.6. REVENUE REQUIREMENT

Hydro Ottawa is requesting approval for both service and base revenue requirement for each year in its planned 2021-2025 rate term, along with the resulting rates and riders based on forecast capital expenditures, OM&A, depreciation expense, cost of capital, payments in lieu of taxes ("PILS"), and revenue from other sources. For the 2021 Test Year, Hydro Ottawa requests a service revenue requirement of \$214.9M, which represents an increase of \$14.3M or 7% from the service revenue requirement previously approved by the OEB for 2020. After accounting for 2019 actuals, Hydro Ottawa is revising its request to a service revenue requirement of \$216.6M for the 2021 Test Year, which represents an increase of \$16.1M or 8% from the service revenue requirement previously approved by the OEB for 2020.

The principal cost drivers underlying Hydro Ottawa's Test Year revenue requirement are the increases to rate base, which are attributable to capital investments that the utility must undertake in order to continue providing safe and reliable electricity service to the residents and businesses in Ottawa and Casselman. Other cost drivers include increases to amortization expense, OM&A expenses, interest, and return on rate base.

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1 Table 8, as updated below, provides a summary of the proposed revenue requirement for

2 2021-2025.

3

4 For additional details regarding Hydro Ottawa's revenue requirement and related cost drivers,

5 please refer to **UPDATED** Exhibit 6-1-1: Calculation of Revenue Deficiency or Sufficiency.

6

7

Table 8 - AS ORIGINALLY SUBMITTED - Summary of Revenue Requirement for

8 **2021-2025 (\$'000s)**

	2021	2022	2023	2024	2025
Return on Rate Base	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027
Payment in Lieu of Taxes	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689
Service Revenue Requirement	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053
Less Revenue Offsets	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483
Forecasted Load at 2020 Rates	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468
Cumulative Revenue Deficiency (over 2020)	\$(17,060)	\$(33,149)	\$(43,719)	\$(51,609)	\$(57,014)
Yearly Revenue Deficiency over 2020	\$(17,060)	\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)

9



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Table 8 – UPDATED FOR 2019 ACTUALS – Revenue Deficiency/Sufficiency for

2 **2021-2025 (\$'000s)**

	2021	2022	2023	2024	2025
Return on Rate Base	\$68,158	\$74,253	\$78,242	\$80,677	\$85,470
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,333	\$56,699	\$59,015	\$60,585	\$63,900
Payment in Lieu of Taxes	\$2,224	\$3,881	\$8,604	\$11,533	\$7,590
Service Revenue Requirement	\$216,638	\$231,113	\$244,558	\$253,969	\$260,674
Less Revenue Offsets	\$11,013	\$10,971	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$205,624	\$220,142	\$232,891	\$241,817	\$248,217
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104
Forecasted Load at 2020 Rates	\$187,888	\$188,816	\$189,699	\$190,686	\$191,453
Cumulative Revenue Deficiency (over 2020)	\$(18,792)	\$(32,381)	\$(44,248)	\$(52,190)	\$(57,651)
Yearly Revenue Deficiency over 2020 ¹⁶	\$(18,792)	\$(13,589)	\$(11,867)	\$(7,942)	\$(5,461)

3 4.7. LOAD FORECAST

- 4 Hydro Ottawa's forecasted energy consumption for the 2021 Test Year is 7,065,745 MWh, as
- 5 originally submitted. After accounting for 2019 actuals, Hydro Ottawa's forecasted energy
- 6 consumption for the 2021 Test Year is 7,063,482. This is 377,142 MWh (5.1%) lower than the
- 7 2016 OEB-approved MWh forecast. The utility's forecasted number of customers for the 2021
- 8 Test Year is 344,936, representing an increase of 6.1% over the 2016 OEB-approved number.

Table 9, as updated below, provides a high-level summary of Hydro Ottawa's forecasted load for 2021-2025.

12

1

13

14 ¹⁶ Totals may not sum due to rounding.

Totals may not sum due to rounding



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Table 9 – AS ORIGINALLY SUBMITTED – Load Forecast Summary

Year	Total Sales (MWh)	Total Customers ¹⁷
2021	7,065,745	344,936
2022	7,088,184	348,104
2023	7,116,619	351,138
2024	7,165,092	354,088
2025	7,179,631	357,017

2

1

Table 9 – UPDATED FOR 2019 ACTUALS – Load Forecast Summary

Year	Total Sales (MWh)	Total Customers ¹⁸
2021	7,063,482	344,936
2022	7,085,688	348,104
2023	7,113,883	351,138
2024	7,162,048	354,088
2025	7,176,418	357,017

4

5 Hydro Ottawa has provided a five-year detailed class-specific weather normalized load forecast

6 and customer connection forecast for each rate class in UPDATED Exhibit 3-1-1: Load

7 Forecast. This forecast incorporates modifications to the provincial electricity conservation

8 framework that were enacted by the Government of Ontario in 2019, as well as the impacts of

embedded generation.

10

11 4.8. COST OF CAPITAL

12 Cost of capital components have been determined for each year during the 2021-2025 planned

13 rate term. Hydro Ottawa has used the following debt/equity ratio for all years: 4% short-term

14 debt, 56% long-term debt, and 40% equity.

15

16 Hydro Ottawa has utilized the short-term debt rate of 2.75%, as provided in the 2020 Cost of

17 Capital Parameters letter dated October 31, 2019, for the full five-year term covered by this

18 Application. The utility has forecasted the weighted average cost of long-term debt based on the

^{19 17} Figures in this column do not include Standby Power customers.

²⁰ ¹⁸ Figures in this column do not include Standby Power customers.



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- 1 cost of existing embedded debt, anticipated long-term borrowing requirements, and the forecast
- 2 yield for 2021-2025 long-term debt issuances. Using the OEB's formulaic calculation, Hydro
- 3 Ottawa has also forecast an ROE for the full five-year period covered by this Application.

4

- 5 It is Hydro Ottawa's intention to provide regulatory efficiency and rate stability over the five-year
- 6 term of this Application by not making any further updates to the cost of capital components.

7

- For additional details on the cost of capital determinations and calculations employed by Hydro
- 9 Ottawa, please see UPDATED Exhibit 5-1-1: Cost of Capital and Capital Structure.

10

11 4.9. COST ALLOCATION AND RATE DESIGN

- 12 Hydro Ottawa has prepared a cost allocation model for each of the five years in the proposed
- 13 2021-2025 rate plan using the OEB's cost allocation methodologies and model. Hydro Ottawa's
- 14 2021 base revenue requirement has been allocated across the utility's nine rate classes. The
- 15 resulting revenues-to-cost ratios for each rate class were determined using the total revenues
- 16 over costs for each year, pursuant to OEB guidelines.

17

- 18 Hydro Ottawa engaged Elenchus Research Associates to undertake a Cost Allocation Model
- 19 study to determine whether refinements were necessary to better reflect the OEB's principle of
- 20 cost causality in its cost allocation to customers. The results of the study indicated that four rate
- 21 classes require adjustments to bring them within OEB-approved ranges. In this Application, the
- 22 utility is proposing the necessary adjustments to achieve this result. For more information,
- 23 please see **UPDATED** Exhibit 7-1-1: Cost Allocation.

- 25 With respect to rate design, one noteworthy feature of Hydro Ottawa's 2021-2025 rate plan is
- 26 that it marks the first five-year rate term for the utility in which distribution rates for residential
- 27 customers will be set at a fully fixed charge. Effective January 1, 2020, Hydro Ottawa completed
- 28 the transition to fully fixed rates for these customers, in accordance with the policy adopted by



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1 the OEB in 2015. 19 As noted elsewhere, the execution of this transition has implications for the

2 presentation of information pertaining to the impacts on residential customer rates associated

3 with the proposals and plans set forth in this Application.²⁰

4

DEFERRAL AND VARIANCE ACCOUNTS 5 4.10.

6 Hydro Ottawa is proposing to clear Group 2 Accounts, including the Lost Revenue Adjustment

7 Mechanism ("LRAM") Account. The total net deferral and variance ("DVA") balance proposed for

8 disposition is \$(5,751,923), as originally submitted. Hydro Ottawa is proposing that the Rate

Riders for Group 2 Accounts (excluding LRAM) be disposed of over two years. For the LRAM

Variance Account, a one-year disposition period is proposed. As no Group 1 Accounts are being

requested for disposition at this time, the rate riders are the same for Regulated Price Plan

12 ("RPP") and non-RPP customers.

13

After accounting for 2019 actuals, Hydro Ottawa is proposing to clear Group 1 and Group 2

Accounts, including the LRAM Account. The total net DVA updated balance proposed for

disposition is \$(6,695,545). Hydro Ottawa is proposing that the Deferral/Variance Accounts Rate

Riders for Group 1 and Group 2 Accounts be disposed of over two years. Disposition of all other

rate riders is requested over a one-year period. 18

19

In this Application, Hydro Ottawa is also proposing modifications to and the discontinuance of

certain DVAs. For further such information, as well as for details on amounts proposed for DVA

22 clearances, please see **UPDATED** Exhibit 9-1-1: Summary of Current Deferral and Variance

23 Accounts and Exhibit 9-2-1: New Deferral and Variance Accounts.

24

25 **4.10.1. Capital Variance Account**

26 In this Application, Hydro Ottawa proposes to sustain the use of a variance account wherein it

27 will record, on an annual basis, the impacts on revenue requirement arising from variances

²⁸ Ontario Energy Board, *Board Policy - A New Distribution Rate Design for Residential Electricity Customers*,

EB-2012-0410 (April 2, 2015). Please see Exhibit 8-2-1: Rate Design Policy Consultation for details.

To result in the provided in the provide



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between actual and forecasted cumulative capital additions. Capital additions would be tracked using three categories: System Access, System Service and System Renewal, and General Plant.²¹ The creation and use of such a variance account was sanctioned as part of the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rates. The utility believes that the administration of this capital variance account on an ongoing basis is an effective means of ensuring transparency and accountability in the planning, execution, and reporting of annual capital expenditures. By proposing the calculation of the annual variance on a cumulative basis, Hydro Ottawa's intent is to ensure that if projects are delayed, but are completed as planned at a later time, then the reduction to revenue requirement will only reflect the period of delay and will cease when the projects have been added to rate base.

11

The one modification to the capital variance account that Hydro Ottawa is proposing to introduce for the 2021-2025 period is the use of a separate sub-account for System Access capital additions. The rationale for this proposal is that capital spending in this category is driven by customer requests and is therefore difficult to predict, as the level of required expenditure is outside of the utility's control.

17

18 For additional information on the Capital Variance Account, please see Exhibit 9-2-1: New 19 Deferral and Variance Accounts.

20

21 **4.10.2**. Earnings Sharing Mechanism

In order to insulate customers from the risk of Hydro Ottawa generating excess earnings, the utility is proposing the inclusion of an earnings sharing mechanism ("ESM"). ESMs permit the sharing of utility earnings with customers when earnings rise above or fall below a certain threshold. Under an ESM, earnings may be passed along to customers in the form of rate reductions or rate offsets. Hydro Ottawa is proposing an asymmetrical ESM such that it is only

²⁷ The System Renewal and System Service categories have been merged into one category to reflect Hydro

²⁸ Ottawa's standard operating practice to shift funds between the two categories, as warranted by customer and

²⁹ operational requirements.



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- 1 proposing to share earnings that exceed a basis point threshold above the utility's ROE, with no
- 2 corresponding adjustment if its earnings fall below the basis point threshold.
- 4 The proposed ESM formula is as follows:

5

3

Table 10 – Proposed ESM Formula

#	Threshold	Treatment
1	Under earning	Borne entirely by shareholder
2	0-150 basis points	Fully retained by shareholder
3	Above 150 basis points	50/50 sharing of ratepayer/shareholder

7

Additional detail on the ESM is included in Exhibit 9-2-1: New Deferral and Variance Accounts.

9

10 **4.10.3**. **Z Factor(s)**

In its *Handbook for Utility Rate Applications*, the OEB affirmed its policy that "[a]n acceptable adjustment during a Custom IR term is a Z factor mechanism for cost recovery of unforeseen events." In step with this guideline, Hydro Ottawa intends to reserve its right over the course of the 2021-2025 rate term to file a Z factor application in order to recover costs resulting from unforeseen events, decisions, or activities, the results of which cannot be reasonably anticipated or quantified at this juncture and where the costs exceed the utility's materiality threshold. Examples include unforeseen weather events or changes to laws or regulations requiring significant implementation investment.

19

20 4.10.4. Certification of Evidence - Commodity Accounts 1588 and 1589

- 21 As per the Filing Requirements, Hydro Ottawa's Chief Financial Officer hereby certifies that the
- 22 utility maintains robust processes and internal controls for the preparation, review, verification,
- 23 and oversight of Account 1588 RSVA Power and Account 1589 RSVA Global Adjustment.

²⁵ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 27.



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1 4.11. BILL IMPACTS

- 2 Table 11, as updated below, provides a summary of the total bill impacts for typical customers in
- 3 all rate classes. Further details regarding Hydro Ottawa's proposed bill impacts are available in
- 4 **UPDATED** Exhibit 8-12-1: Bill Impact Information.



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Table 11 - AS ORIGINALLY SUBMITTED - Summary of Bill Impacts

Rate Class		Approved	Proposed					
		2020	2021	2022	2023	2024	2025	
Residential (750 kWh)	Distribution Charge	\$28.64	\$29.95	\$32.13	\$33.97	\$34.95	\$35.56	
	Change in Distribution Charge		\$1.31	\$2.18	\$1.84	\$0.98	\$0.61	
	% Distribution Increase		4.57%	7.28%	5.73%	2.88%	1.75%	
	% Increase of Total Bill		1.32%	1.54%	1.28%	0.68%	0.43%	
General	Distribution Charge	\$71.32	\$73.06	\$78.13	\$83.28	\$86.33	\$88.58	
Service <50 kW	Change in Distribution Charge		\$1.74	\$5.07	\$5.15	\$3.05	\$2.25	
	% Distribution Increase		2.44%	6.94%	6.59%	3.66%	2.61%	
(2,000 kWh)	% Increase of Total Bill		0.65%	1.37%	1.37%	0.81%	0.59%	
General	Distribution Charge	\$1,461.93	\$1,537.98	\$1,669.42	\$1,785.17	\$1,853.01	\$1,905.37	
Service 50 kW -	Change in Distribution Charge		\$76.05	\$131.44	\$115.76	\$67.84	\$52.36	
1,499 kW	% Distribution Increase		5.20%	8.55%	6.93%	3.80%	2.83%	
(250 kW)	% Increase of Total Bill		1.59%	0.74%	0.65%	0.38%	0.29%	
General	Distribution Charge	\$15,941.18	\$16,614.68	\$18,015.99	\$19,263.84	\$19,992.90	\$20,452.40	
Service	Change in Distribution Charge		\$673.50	\$1,401.31	\$1,247.85	\$729.06	\$459.50	
1,500 kW - 4,999 kW	% Distribution Increase		4.22%	8.43%	6.93%	3.78%	2.30%	
(2,500 kW)	% Increase of Total Bill		1.53%	0.78%	0.69%	0.40%	0.25%	
	Distribution Charge	\$48,420.32	\$53,922.32	\$58,287.22	\$62,092.67	\$64,292.42	\$65,709.17	
Large Use	Change in Distribution Charge		\$5,502.00	\$4,364.90	\$3,805.45	\$2,199.75	\$1,416.75	
(7,500 kW)	% Distribution Increase		11.36%	8.09%	6.53%	3.54%	2.20%	
	% Increase of Total Bill		2.16%	0.79%	0.68%	0.39%	0.25%	
	Distribution Charge	\$9.53	\$10.91	\$13.14	\$15.31	\$17.20	\$18.99	
Sentinel Lighting	Change in Distribution Charge		\$1.38	\$2.23	\$2.17	\$1.89	\$1.79	
(0.4 kW)	% Distribution Increase		14.46%	20.46%	16.54%	12.33%	10.44%	
` ,	% Increase of Total Bill		7.36%	8.74%	7.83%	6.32%	5.65%	
_	Distribution Charge	\$7.76	\$6.99	\$7.97	\$8.68	\$8.98	\$9.24	
Street Lighting (1 kW)	Change in Distribution Charge		\$(0.77)	\$0.98	\$0.71	\$0.30	\$0.26	
	% Distribution Increase		(9.98)%	14.07%	8.92%	3.46%	2.91%	
	% Increase of Total Bill		(1.10)%	3.16%	2.24%	0.96%	0.83%	
Unmetered Scattered Load (470 kWh)	Distribution Charge	\$17.08	\$17.49	\$19.55	\$21.37	\$22.67	\$23.82	
	Change in Distribution Charge		\$0.41	\$2.06	\$1.82	\$1.30	\$1.15	
	% Distribution Increase		2.42%	11.76%	9.33%	6.10%	5.07%	
	% Increase of Total Bill		0.98%	2.36%	2.05%	1.44%	1.26%	

2

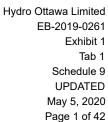


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Table 11 – UPDATED FOR 2019 ACTUALS – Summary of Bill Impacts

D (0)		Approved			Proposed		
Rate Class		2020	2021	2022	2023	2024	2025
Residential (750 kWh)	Distribution Charge	\$28.64	\$30.62	\$32.50	\$34.04	\$35.03	\$35.65
	Change in Distribution Charge		\$1.98	\$1.88	\$1.54	\$0.99	\$0.62
	% Distribution Increase		6.91%	6.15%	4.74%	2.91%	1.77%
	% Increase of Total Bill		1.53%	1.33%	1.38%	0.69%	0.43%
General Service	Distribution Charge	\$71.32	\$74.21	\$79.23	\$83.71	\$86.76	\$89.02
	Change in Distribution Charge		\$2.89	\$5.02	\$4.48	\$3.05	\$2.26
<50 kW	% Distribution Increase		4.05%	6.76%	5.65%	3.64%	2.60%
(2,000 kWh)	% Increase of Total Bill		0.69%	1.36%	1.52%	0.80%	0.59%
General	Distribution Charge	\$1,461.93	\$1,508.85	\$1,620.11	\$1,788.85	\$1,857.00	\$1,909.66
Service	Change in Distribution Charge		\$46.93	\$111.26	\$168.74	\$68.15	\$52.66
50 kW - 1.499 kW	% Distribution Increase		3.21%	7.37%	10.42%	3.81%	2.84%
(250 kW)	% Increase of Total Bill		2.96%	(1.08)%	1.20%	0.38%	0.29%
General	Distribution Charge	\$15,941.18	\$16,483.93	\$17,672.63	\$19,315.57	\$20,048.54	\$20,512.79
Service	Change in Distribution Charge		\$542.75	\$1,188.70	\$1,642.94	\$732.97	\$464.25
1,500 kW - 4,999 kW	% Distribution Increase		3.40%	7.21%	9.30%	3.79%	2.32%
(2,500 kW)	% Increase of Total Bill		2.94%	(1.01)%	1.18%	0.40%	0.25%
	Distribution Charge	\$48,420.32	\$53,055.32	\$56,727.95	\$62,069.06	\$64,275.56	\$65,702.06
Large Use	Change in Distribution Charge		\$4,635.00	\$3,672.63	\$5,341.11	\$2,206.50	\$1,426.50
(7,500 kW)	% Distribution Increase		9.57%	6.92%	9.42%	3.55%	2.22%
	% Increase of Total Bill		3.46%	(1.19)%	1.38%	0.39%	0.25%
	Distribution Charge	\$9.53	\$11.25	\$13.34	\$15.38	\$17.30	\$19.12
Sentinel Lighting	Change in Distribution Charge		\$1.72	\$2.10	\$2.04	\$1.91	\$1.82
(0.4 kW)	% Distribution Increase		18.02%	18.64%	15.32%	12.43%	10.53%
,	% Increase of Total Bill		8.47%	8.13%	7.62%	6.38%	5.71%
	Distribution Charge	\$7.76	\$7.46	\$8.08	\$8.80	\$9.11	\$9.38
Street Lighting	Change in Distribution Charge		\$(0.30)	\$0.62	\$0.72	\$0.31	\$0.27
(1 kW)	% Distribution Increase		(3.89)%	8.26%	8.94%	3.55%	3.00%
()	% Increase of Total Bill		(0.22)%	1.96%	2.93%	0.99%	0.87%
Unmetered Scattered Load (470 kWh)	Distribution Charge	\$17.08	\$17.68	\$19.38	\$21.25	\$22.55	\$23.70
	Change in Distribution Charge		\$0.60	\$1.71	\$1.86	\$1.30	\$1.15
	% Distribution Increase		3.54%	9.64%	9.61%	6.13%	5.10%
	% Increase of Total Bill		0.92%	1.96%	2.42%	1.44%	1.26%





UPDATED Hydro Ottawa Limited Business Plan 2021-2025

May 2020



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1. INTRODUCTION

Hydro Ottawa Limited ("Hydro Ottawa" or "the utility") has prepared a formal Business Plan that serves as the basis for the utility's overall strategy and goals, highlights the intersection between these goals and the proposals set forth in its 2021-2025 Custom Incentive Rate-setting ("Custom IR") application, and speaks to the benefits that will accrue to customers as a result of the plan's execution.

This Business Plan has been prepared in conformance with the requirements set forth in the Ontario Energy Board's ("OEB") *Handbook for Utility Rate Applications*.

2. COMPANY OVERVIEW

Mission

To create long-term value for our shareholder, benefitting our customers and the communities we serve

Organizational Values

Teamwork, Integrity, Excellence, Service

Vision

Hydro Ottawa – a leading partner in a smart energy future

Hydro Ottawa is a regulated electricity distribution company serving approximately 340,000 customers within the City of Ottawa and the Village of Casselman, as of the end of 2019. As the third-largest municipally owned electrical utility in Ontario, the company maintains one of the safest, most reliable, and cost-effective electricity distribution systems in the province. Its service territory stretches 1,116 square kilometres and is comprised of a dense urban core, large areas of suburban development, and a vast rural area that represents 60% of the overall footprint.



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Hydro Ottawa and its predecessor utilities have proudly served communities in the National Capital Region for over 100 years. The utility's unique customer base includes residential customers, commercial businesses, farms, and large institutional and industrial customers. As the national seat of government, Ottawa is home to the federal parliament and key institutions within the Government of Canada. Moreover, the city is the second largest in the Province of Ontario and the sixth largest in the country.

The utility is a wholly-owned subsidiary of Hydro Ottawa Holding Inc., which is 100% owned by the City of Ottawa and governed by an independent Board of Directors.

3. INTEGRATED BUSINESS PLANNING & PERFORMANCE MANAGEMENT FRAMEWORK

For more than a decade, the larger corporate enterprise of which Hydro Ottawa is a member has successfully administered an integrated business planning and corporate performance management framework. This framework links the strategic and business planning, budgeting, performance measurement, management reporting, and employee alignment activities into one continuous business and improvement cycle. Applying this framework in whole, Hydro Ottawa is able to chart its course for a five-year period, implement and operate in accordance with annual plans and budgets, and monitor and report performance and progress against these plans and budgets.

In accordance with its charter, Hydro Ottawa's Board of Directors ("the Board") is responsible for developing and approving a business plan which indicates the overarching strategy that the utility intends to pursue. The Board must regularly review the integrity of the business plan. At any time, if the Board is of the opinion that the then-existing business plan is no longer appropriate, the Board – in conjunction with the Chief Executive Officer ("CEO") – must develop a revised business plan. What's more, on an ongoing basis, the Board is likewise responsible for monitoring the utility's implementation of the plan and the progress toward achieving it.

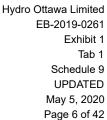


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Similarly, the Board is tasked with approving the annual budget, and monitoring its progress and achievement at each regular meeting.

The key components of the integrated planning and performance management framework are as follows:

- a. An enterprise strategic plan approved by the holding company Board that sets the course for the enterprise for a five-year period.
- b. Annual business plans that are approved at both the holding company and regulated distribution utility levels, which are comprised of a corporate performance scorecard and budget. These elements operationalize the strategic plan in a given year and cascade to employees through individual contribution and performance appraisal systems. The annual business plans are informed by, and draw upon, updated plans for each administrative division within the utility which are prepared by the applicable member of the Executive Management Team.
- c. Regular monitoring and reporting of performance and progress against annual plans and budget, including:
 - i. Monthly reviews by the Executive Management Team of financials, status of priorities and critical projects, and performance measures and targets as established for each key area of focus in the annual Corporate Performance Scorecard;
 - ii. Monthly updates to the Shareholder;
 - iii. A quarterly President and CEO Report to the holding company and regulated distribution utility Boards of progress against the Corporate Performance Scorecard, including enterprise risk management reporting;
 - iv. Quarterly financial reports to the Shareholder;
 - v. Review by the holding company and regulated distribution utility Boards of annual results against the Corporate Performance Scorecard and financial results in April; and





- vi. An annual report to the Shareholder in June.
- d. As part of the development of the annual plan for the next year, an annual review of the critical issues and opportunities facing the utility by the Executive Management Team, and subsequently by the Board of Directors, to determine whether an adjustment to the five-year plan is required.

In addition, a key input into the process is a set of formal guidelines from the Chief Financial Officer for the preparation of five-year budgets for Hydro Ottawa's subsequent distribution rate period. This guidance is circulated approximately one year in advance of the expected filing date of the rate application. The document lays out a timeline for budget development; identifies constraints and expectations relevant to such matters as compensation, headcount, and capital and operational expenditure levels; and stipulates requirements related to productivity, continuous improvement, cost control, and alignment of spending to the utility's priorities.

A copy of the memorandum setting forth guidelines for 2020-2025 budgets and priorities is included as an attachment below.

4. CUSTOMER NEEDS & PREFERENCES

Providing customers with value for money and facilitating a customer experience that is driven by choice are cornerstones of Hydro Ottawa's business planning. In step with its overall business strategy to put the customer at the centre of everything it does, the utility endeavours to ensure that its capital and operational investment plans are guided and informed by customer needs, preferences, and priorities.

4.1. ONGOING CUSTOMER ENGAGEMENT

Hydro Ottawa avails itself of numerous tools, activities, and interactions to engage customers and to reflect their input in the utility's planning and plans on an ongoing basis. These reflect an evergreen posture on Hydro Ottawa's part to develop a genuine understanding of customers'

HydroOttawa

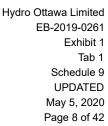
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interests through a fluid and continuous feedback loop. This helps inform and sharpen the utility's service delivery as a matter of established routine, and embed a customer-centric culture across the organization.

Hydro Ottawa's approach to customer engagement represents a blend of activities that are either aligned with industry best practice or are homegrown, having been formulated and customized internally in order to suit the particular needs of the utility and its customer base. Key channels for interaction include telephone, email, web chat, social media, website, in person, and community events. Focus groups, surveys, and analytics are also important research tools for gleaning broader insights and trends.

The following serve as illustrative – but by no means comprehensive – examples of specific instruments used by Hydro Ottawa to identify customer needs and preferences, and to incorporate them into the utility's plans for providing electricity distribution services:

- Social media platforms Hydro Ottawa uses social media channels to engage in two-way conversations with customers on a daily basis. Channels are monitored during business hours and, in particular, during prolonged power outages in order to answer customer questions or concerns. Recent trends indicate that many customers have a strong preference to use social media to share information or ask questions related to outages, and that they value real-time responses to their inquiries.
- Transactional surveys every week, customers who phoned Hydro Ottawa's call
 centre during the previous week are automatically invited to rate their experience with
 the service received. Based upon the survey results, Hydro Ottawa is able to enhance
 the customer experience and adapt processes in a timely and responsive manner. More
 recently, Hydro Ottawa added email and web chat features to this survey, in keeping with
 the utility's commitment to engage customers through the channel of their choice.





- Annual customer satisfaction survey survey questions cover a wide variety of topics, including overall satisfaction with Hydro Ottawa, reliability, customer service, power outages, billing, cost of electricity, and corporate image. Feedback from these surveys is incorporated into Hydro Ottawa's planning process, and ultimately forms the basis of plans which address customer needs as well as service improvements and offerings.
- Key Accounts program customers are categorized as a Key Account based on their size of service, financial impact, and impact on the community and the grid. Hydro Ottawa works proactively with these large business and institutional customers on a range of priorities, including billing, load profile, rates analysis, power quality, energy management, and education and awareness of provincial regulations.
- Project-specific open houses these are hosted by Hydro Ottawa when major distribution system projects have the potential to impact customers and their community.
 Based on customer feedback, these consultations have resulted in the evaluation of additional design options, the use of less impactful equipment, and/or the scheduling of mutually agreeable timelines for project completion. Between 2016 and 2019, Hydro Ottawa held 35 such open houses.
- Collaboration with contractors and developers this takes the form of routine information sharing and participation in dedicated associations and forums with members of this unique stakeholder group. These engagements offer valuable insights into customer expectations around Hydro Ottawa's communications, processes, standards, specifications, costing, and Conditions of Service.
- Conditions of Service revisions Hydro Ottawa compiles suggested edits to its Conditions of Service ("COS") on an ongoing basis, in response to customer feedback.
 Prior to the filing of any revised COS, Hydro Ottawa solicits customer comments through



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its website and social media accounts. All customers likewise receive notification of the review period through an on-bill message. In addition, contractors, City of Ottawa contacts, and Key Accounts are directly notified of the review period by letter.

• Engagement with the City of Ottawa – given the impact of municipal planning, services, and regulations on customer needs, the relationship with the City is a vital one. Accordingly, Hydro Ottawa frequently interacts with numerous divisions across the municipal government. These interactions serve as platforms for discussing critical matters, such as long-term planning, capital programs, permitting, standards, and servicing. In turn, they play a valuable role in enhancing communications and coordination, sharing of lessons learned, identifying opportunities for improvement, and building mutual understanding.

4.2. CUSTOMER CONSULTATION ON THE 2021-2025 RATE APPLICATION

As a complement to, and extension of, the foregoing activities, Hydro Ottawa undertook targeted customer outreach activities to inform the development of the specific plans and proposals set forth in its 2021-2025 rate application. Consisting of a mix of qualitative and quantitative methodologies, this engagement was launched in January 2019 and extended through September 2019.

Phase I of this consultation focused on low-volume customers (residential and small business), seeing as these segments represent approximately 99% of the total customer base. This initial phase focused on gathering general insights on customer priorities, preferences, and needs.

Consistent findings were yielded across low-volume customer classes. To begin, the clear majority of these customers expressed satisfaction with the current service they receive from Hydro Ottawa. In addition, ensuring reliability, maintaining reasonable rates, and investing in technology in order to help reduce future costs constituted the top three priorities for customers. Moreover, these customers generally held favourable views on making proactive investments in



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aging infrastructure and grid modernization at the present time, with the understanding that this may lead to near-term costs but will result in future savings. With respect to reliability outcomes, above all customers placed a premium on accelerating restoration times following extreme weather events. Minimizing the number and duration of outages in general was flagged as the next most pressing priority.

Based upon the feedback received during Phase I, Hydro Ottawa undertook a second, more expansive phase of engagement, in which the utility surveyed customers for their detailed feedback on proposed plans for capital and operational investments over the 2021-2025 period. A series of expenditure options was presented – namely, a reference case outlining the utility's proposed course of action, along with scenarios which either accelerated and expanded the proposal, or which scaled back the scope and timing of the proposal. Customers were thus able to express their views on a range of alternative proposals, as well as the respective trade-offs, outcomes, and rate impacts.

For residential and small business customer classes, the response was heavily weighted in support of Hydro Ottawa's proposed plans or spending more than proposed for certain services. Nearly one-half of respondents in both segments (48% and 47%, respectively) identified that Hydro Ottawa should maintain the forecasted annual increase to deliver a program which focuses on the stated priorities. A further 35% of residential and 29% of small business customers expressed support for further improvements in service, even if this entailed additional rate increases. What's more, a majority of respondents called for investments above and beyond the reference case for purposes of renewing the overhead and underground portions of the grid, while more than 75% of customers signalled a willingness to pay more on their monthly bill in order to enable Hydro Ottawa to undertake measures to prepare for the effects of severe weather.

With respect to participants from large customer segments, these voices expressed concern over the rate increases being proposed and were open to potential decreases in service



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reliability if this equated to reductions in forecasted bill increases. This feedback was highly valuable, insofar as it emphasized the critical importance of a balanced plan – one which maximizes the impact of investments to match residential customer expectations without exacerbating rate pressures on business customers (and all while relentlessly pursuing efficiency and productivity improvements).

Of note, the number of customers who participated in this engagement exercise – nearly 21,000 in total – was the largest in the history of any Hydro Ottawa rate application. In itself, this result was encouraging and instilled confidence in the quality of the information gleaned and the representativeness of the sample pool of customers. Beyond this, however, Hydro Ottawa was buoyed by the fact that the rate of response (i.e. number of respondents as a percentage of the total customer base) exceeded that which has been observed in any rate filing from an OEB-regulated distributor in recent memory.

5. STRATEGIC CONTEXT

Hydro Ottawa has formulated its corporate vision and objectives against the backdrop of numerous trends and shifts that are unfolding in the operational, business, and policy environments in which the utility carries out its activity.

5.1. OPERATIONAL CHALLENGES

5.1.1. Aging Infrastructure

Foremost among the operational pressures facing the utility is the advanced age of a significant subset of its asset base. Large segments of the system were constructed in the 1960s through the 1980s. With most assets having a lifespan of approximately 50 years, a considerable proportion of the system is approaching or has exceeded the anticipated end of life.

For example, nearly 19% of all assets have reached their expected service life and now pose a higher risk of failure. This includes approximately 51% of stations and 23% of overhead system



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assets (i.e. poles, transformers, and switches). Another 12% of the asset population is within 10 years of reaching its end of life.

In the absence of critical system renewal investments, the increased potential of failures posed by these aging assets will impact Hydro Ottawa's ability to maintain grid reliability.

5.1.2. An Expanding Customer Base

Compounding the challenge of replacing aging infrastructure is the sustained growth which the City of Ottawa continues to experience. This trend has translated into a steady expansion in the number of customers served by the utility and the number of new customers requiring connection to Hydro Ottawa's network on an annual basis.

Similar to the patterns observed throughout 2016 to 2020, Hydro Ottawa anticipates a comparable level of growth over the course of the planned 2021-2025 rate term. In fact, the City of Ottawa is projecting an increase of over 16% in the city's population by 2031, relative to 2016 levels. This growth is expected to take several distinct forms: the development of new mixed commercial/residential communities; intensification of development within the urban core of the service territory; continued suburban growth in the east, west, and southern regions; and former rural areas fed by long distribution lines becoming suburban centres. Alongside this development, major infrastructure projects such as the Stage 2 expansion of Ottawa's Light Rail Transit system are also set to overlap with the utility's upcoming rate period.

5.1.3. Extreme Weather Effects

In a 2019 report examining Canada's top climate change risks, the Council of Canadian Academies found that "climate change is very likely to cause significant negative impacts across many natural and human systems in Canada over the next 20 years." The report concluded that adaptation action will need to be pursued through effective partnerships among government, the private sector, communities, and individuals, in order to avoid the worst damages stemming from climate change.



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Over the last five years, Hydro Ottawa and its customers experienced firsthand the growing frequency of severe weather events and their adverse impacts on the distribution grid. During a six-month span in 2018 alone, there were three major weather events that affected the Ottawa area (including a multiple-tornado event during the month of September) which caused considerable damage and heavily impacted spending on emergency replacement of assets. This series of events was bookended on either side by historic flooding along the Ottawa River in 2017 and 2019, which resulted in tens of millions of dollars in economic losses and prolonged disruptions to customers in affected areas.

In light of these findings and events, and in view of the rising trend of extreme weather, Hydro Ottawa will be compelled to enhance adaptation and risk mitigation measures within the design, operation, and maintenance of its system, in order to help protect infrastructure, service delivery, and occupational health and safety. To that end, the utility has already commissioned and received a formal distribution system climate risk and vulnerability assessment, and is undertaking a multi-year action plan to implement the recommendations.

5.1.4. Technological Complexity

The operational and informational technology systems that underpin utilities' performance are rapidly evolving and becoming increasingly complex. The business systems and processes supporting frontline operations and back-office functions are steadily migrating towards digital, mobile-friendly, and cloud-based solutions. Core operational systems continue their convergence with enterprise information systems. Automation is on the rise, with the frontier into artificial intelligence likewise being crossed. And while utilities are navigating this shifting terrain, they are simultaneously compelled to mitigate the risk of technologies becoming obsolete – whether as a result of third-party providers discontinuing maintenance services for legacy solutions or existing tools having reached the end of their useful lives (as in the case of first-generation smart meters).



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Meanwhile, the implementation of smart grid equipment and devices, alongside the proliferation of distributed energy resources ("DERs"), has fostered a more dynamic ecosystem of transactions, participants, and flows of energy, information, and communications. What's more, a central tenet of the "Smart City" movement is that utilities will enable the connectivity which harnesses the power of data and technology to enhance the quality of life for communities.

Taken together, the aforementioned technological trends and pressures introduce a wide spectrum of both risk and opportunity for Hydro Ottawa.

5.1.5. Cyber Security

The critical nature of the services provided by utilities makes for a double-edged sword. On the one hand, there is widespread recognition of the indispensable role played by electricity distributors in the quality of life that is enjoyed by consumers. Conversely, the essential role played by electricity means that utilities rank among the most high-value targets for malicious actors in cyberspace. This risk is magnified for a distributor like Hydro Ottawa, which serves the capital city of a G7 country and a multitude of customers with unique service quality and data confidentiality needs.

The risks faced by utilities in Ontario in relation to cyber security are set to amplify exponentially over the coming five-year horizon and beyond, in light of the rising complexity of operational and informational technology systems noted in the foregoing section. Further reflection of the shifting risk landscape is the OEB's recent implementation of a cyber security framework for utilities under its jurisdiction, as well as the expansion of the Independent Electricity System Operator's ("IESO") mandate to provide cyber security information services to licensed transmitters and distributors.

5.1.6. Workforce Retirements

Hydro Ottawa has long maintained that its strength and success as a company is derived from the quality of its employees. Like many companies in the electricity sector, though, Hydro



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Ottawa faces challenging workforce demographics. For example, over the next 10 years, 34% of the workforce will be eligible for retirement, of which 60% are skilled workers in trades or technical professions. Taken together with the fact that almost one-third of employees have five years or less of service, the picture of the workforce population at Hydro Ottawa is one in which there is less experience in a highly complex and safety-focused operating environment. The ability of the utility to proactively prepare for the impacts of workforce demographics, as well as the impacts of technological and digital transformation on requisite employee skill sets, will be a critical determinant of whether core business objectives and customer needs can be met.

5.2. BUSINESS ENVIRONMENT

5.2.1. State of the Economy

The state of the local, provincial, national, and international economies can have a significant impact on Hydro Ottawa's business through factors such as inflation, customer credit risk, weakening demand for electricity and/or value-added services, and availability of market capital to fund growth. The economic climate can also have an effect on the stability and performance of some of the utility's key business partners. While near- and mid-term indicators in Ottawa, Ontario, and Canada are generally positive, the prospect of economic headwinds and uncertainty lingers, especially in relation to competitiveness and regulatory and tax burdens.

5.2.2. Evolution of the Utility Business Model

It is widely acknowledged across industry, academic, and government circles that the sector is in the midst of a historic transition. In some corners, this transformation is attributed to the confluence of key factors known as the "three Ds" – decentralization, decarbonisation, and digitization. Innovative tools, technologies, and data sets are introducing new options to enhance customers' control, understanding, and supply of energy. In turn, this is cultivating higher customer expectations for leading-edge services and solutions. Moreover, the economics of supply options have evolved significantly. Maturing forms of non-emitting resources are approaching cost parity with conventional generation resources, while the appeal of DERs has also grown.



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Against this backdrop of change, the prevailing consensus favours the view that the utility has no choice but to abandon its conventional business model. What ought to replace it, however, remains a subject of contentious debate. It is a question that every utility will be compelled to address and resolve in short order. If an effective and viable response is not forthcoming, the risk emerges of actors and forces beyond the utility's control making the decision instead.

5.2.3. Customer Interest in Choice & Sustainability

As signalled in the foregoing section, the engine that is fueling the transformation unfolding in the sector is the changing role of the customer. Whereas this role has historically been passive in nature, it has become much more influential in the new landscape. The opportunities and expectations for customized service, control, and convenience continue to expand. A prominent example in this regard is the rising level of customer interest in sourcing power from clean sources of energy and the manifestation of this appetite in the steady proliferation of DERs across Ontario.

The shifting sands of customers' needs and choices present an exciting opportunity for offering new products and services to enhance customer value and service. To realize these opportunities, utilities will need to continuously improve the way they do business, with a particular focus on creating a more effortless and engaging customer experience. As the preferences and priorities of customers continue to evolve, Hydro Ottawa must be ready, willing, and able to fulfill them. Maintaining a business strategy that puts the customer at the centre of everything the utility does will be a fundamental prerequisite for success.

5.2.4. Consolidation & Shared Services in the Distribution Sector

The business environment of Ontario's electricity distribution sector is unique, in terms of the number of participating members. Over 60 local distributors provide electricity to the province's 5.2 million customers. For many years, public policy has sought to encourage and incentivize consolidation within the distribution community. What's more, numerous aspects of the sector's evolution and the changing utility business model seem to favour economies of scale in a distributor's operations and activities. It is therefore not altogether surprising that, since the



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filing of Hydro Ottawa's last rebasing application in 2015, the sector has witnessed a steady succession of consolidations, along with an uptick in the entry into shared services agreements.

The footprint and dispersion of distribution utilities throughout Eastern Ontario means that Hydro Ottawa remains well-positioned to pursue consolidation opportunities. Similarly, the utility's range of experience with shared services has underscored the value of targeted collaboration and partnership with utility peers, where appropriate. As such, going forward, these options will remain important parts of the utility's toolkit to provide the most cost-effective solutions to customers.

5.2.5. Market Renewal

Hydro Ottawa is a registered participant in the provincial electricity market administered by the IESO. In its capacity as a market participant, the company purchases electricity from the IESO on behalf of the vast majority of its customers. Accordingly, Hydro Ottawa has a direct stake in an efficient and reliable market, which is able to supply customers with power at the lowest possible cost. Since 2016, the IESO has been exploring a series of enhancements to the design and administration of Ontario's markets. Several of these proposals contemplate fundamental changes to the structures and methodologies for determining the wholesale price of electricity. Under the IESO's project management timeline for Market Renewal, the initial group of these proposals is slated to take effect in March 2023, near the mid-point of Hydro Ottawa's next five-year rate term.

For electricity distributors, the reforms emanating from Market Renewal may represent a double-edged sword. On the one hand, they may pose certain administrative challenges, especially from a settlements and billing perspective. Concurrently, however, to the extent that Market Renewal serves as a platform for developing new product and service offerings, the initiative could also open the door to new business and revenue opportunities.



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5.3. POLICY & REGULATORY ENVIRONMENT

5.3.1. Shifts in Public Policy & Regulation

Over the course of Hydro Ottawa's 2016-2020 rate period, there were numerous policy and regulatory developments which had profound effects on the utility and the sector at large: establishment and subsequent cancellation of a provincial cap-and-trade program; implementation of numerous electricity rate mitigation and assistance programs; changes to the OEB's customer service rules, including the institution of a moratorium on residential disconnections during winter; adoption of the Ontario Cyber Security Framework; issuance of OEB guidance on corporate governance; cancellation of Ontario's conservation framework; and reforms to the OEB's governance structure.

And with respect to the primary vehicle driving provincial energy policy of late – the Long-Term Energy Plan ("LTEP") – it warrants observation that a total of three LTEPs have been issued over the past seven years. Each iteration of the LTEP left a lasting imprint on the public policy landscape. Assuming the current legislative framework for LTEP development remains in place, two new LTEPs are set to be released over the course of Hydro Ottawa's 2021-2025 rate term.

A practical effect of these recent trends has been a heightened need for electricity distributors to respond quickly to policy and regulatory actions which significantly impact the operations, activities, investments, and structure of the distribution sector. Hydro Ottawa anticipates that this need for readiness and nimbleness in adapting to shifts in public policy direction will endure throughout the utility's forthcoming rate period.

5.3.2. Affordability & Cost Reduction

While in recent years the broader policy landscape has been fluid, one aspect has remained firm – an enduring interest on the part of policymakers and regulators in placing downward pressure on customers' rates and bills. This objective has been pursued in varying forms, whether through rate rebates and mitigation, assistance for customers struggling to pay their bills, dedicated programs for commercial and industrial ratepayers, subsidies for the purchase of



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energy efficient equipment, or pilot programs to test alternative pricing structures. Depending upon the future direction and constraints of public policy in this regard, rate-regulated utilities may face challenges, such as barriers or resistance to approval for cost recovery of operational and capital expenditures.

5.3.3. GHG Emissions Reduction & Electrification

Across all levels of government, there is a crystallizing consensus that greenhouse gas ("GHG") emissions ought to be lowered. Where sharp differences in policy prescriptions do exist is in regards to the means for achieving this end. And yet, even in this respect, there are common threads woven by policy actors that are of significant relevance to the electricity distribution sector in Ontario. Foremost among these is growing policy interest in the electrification of various economic sectors, especially transportation. This enthusiasm can be observed in a range of federal government climate change initiatives as well as in the province's projections for a steady uptick in the deployment of electric vehicles. Hydro Ottawa is also in the unique vantage point of having a shareholder, the City of Ottawa, which views electrification as a critical means of supporting its "Energy Evolution" strategy for reducing GHGs and boosting renewable energy use.

With the arc of GHG reduction policy bending in a direction that is increasingly favourable to enhanced electrification, both the implications and opportunities for distributors are numerous. In the former context, localized impacts on distribution infrastructure could be significant, depending upon the scale and pace of electrification. As for the latter, the embrace of electrification is advantageous to distributors, insofar as it bolsters their position to serve as a trusted energy advisor for customers and as an enabler of smart energy solutions.

5.3.4. Policy Action on Utility Revenue & Ratemaking

Looking ahead to the next five-year rate term for Hydro Ottawa, the outlook is decidedly mixed with respect to the revenue and ratemaking models for Ontario distributors. Grounds for optimism, in relation to the prospect of expanded business interests and opportunities, include



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provisions of the *Ontario Energy Board Act, 1998* which have relaxed restrictions on permissible business activity for distributors, as well as signals from the regulator that it is open to reducing barriers to new utility business models and examining approaches to remuneration that incent cost-effective innovation. At the same time, however, any conversation around utility remuneration will feature some degree of risk that other actors may seek outcomes that are at odds with the goal of enlarging the playing field in which distributors can compete. What's more, the prospect lingers of policy action on electricity pricing and bill reduction that may have adverse consequences for distributors from a financial viability perspective.

6. STRATEGIC OBJECTIVES & CORPORATE PERFORMANCE GOALS

6.1. STRATEGIC OBJECTIVES

Hydro Ottawa's vision is to be a leading partner in a smart energy future and to serve as the trusted energy advisor for customers. To achieve this vision, the utility has organized its business strategy around four critical areas of performance and supporting strategic objectives for several years – as represented in the figure below.

Hydro Ottawa will maintain continuity in its core objectives heading into the 2021-2025 period. Consistent with past years, the renewed strategic objectives are being formally adopted at the holding company level and will cascade across the enterprise. They will therefore serve to guide the business and operations of the regulated distribution utility.

The rationale underlying this approach includes such key factors as the level of success achieved during the preceding five-year rate term, the trajectory of the business and policy landscape in which Hydro Ottawa operates (as described in the preceding section on Strategic Context), and the input received from customers regarding the utility's performance and direction.

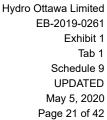




Figure 1 – Corporate Strategic Objectives



- **Customer Value:** we will deliver value across the entire customer experience by providing reliable, responsive and innovative services at competitive rates.
- Organizational Effectiveness: we will achieve performance excellence by cultivating a culture of innovation and continuous improvement.
- Financial Strength: we will create sustainable growth in our business and our earnings
 by improving productivity and pursuing business growth opportunities that leverage our
 strengths our core capabilities, our assets and our people.
- Corporate Citizenship: we will contribute to the well-being of the community by acting at all times as a responsible and engaged corporate citizen.

Of these objectives, the most important driver of Hydro Ottawa's business strategy will remain Customer Value, with the utility striving to put the customer at the centre of everything it does.



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6.2. CORPORATE PERFORMANCE GOALS

Customer Value, Financial Strength, Organizational Effectiveness, and Corporate Citizenship serve as the overarching four key areas of focus around which Hydro Ottawa anchors and organizes its business activity. With respect to the design and execution of plans to achieve strategic objectives in each of these areas of performance, a critical step is the establishment of a corporate performance scorecard. This scorecard establishes qualitative performance goals and priorities, along with quantitative measures and targets, in each of the four strategic areas of focus. Similar to the adoption of the strategic objectives, the corporate performance goals are established by the holding company, and in turn, are cascaded across the enterprise.

The table below depicts the planned alignment between the strategic objectives and corporate performance goals for Hydro Ottawa's regulated electricity distribution business for the 2021-2025 rate term.



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Table 1 – Alignment of Corporate Strategic Objectives & Corporate Performance Goals

5-Year E	nterprise Strategic Objectives and Outcomes (2021-2025)	Corporate Performance Goals
Customer Value	Enterprise Strategic Objective: We will deliver value across the entire customer experience By providing reliable, responsive and innovative services at competitive rates Enterprise Strategic Outcome: Customer loyalty	 Assist customers in managing their energy consumption and electricity costs Deliver on customer expectations for service quality and responsiveness Maintain overall distribution system reliability
Organizational Effectiveness	Enterprise Strategic Objective: We will achieve performance excellence By cultivating a culture of innovation and continuous improvement Enterprise Strategic Outcomes: Efficient and effective operations Safe and healthy work environment Engaged, aligned and prepared workforce	 Continue to enhance operational performance and productivity Maintain leading health and safety record Enhance organizational and employee capability
Financial Strength	Enterprise Strategic Objective: We will create sustainable growth in our business and our earnings By improving productivity and pursuing business growth opportunities that leverage our strengths – our core capabilities, our assets and our people Enterprise Strategic Outcome: Growth in shareholder value	Grow revenues from new sources Enhance / protect revenues from existing business lines
Corporate Citizenship	Enterprise Strategic Objective: We will contribute to the well-being of the community By acting at all times as a responsible and engaged corporate citizen Enterprise Strategic Outcomes: Leading governance and business practices Engaged stakeholders Safe, secure and environmentally responsible services Positive community impact	 Enhance our brand image in the community and the industry Continue to improve our environmental performance and reduce our impact on the environment



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7. CAPITAL & OPERATIONAL PLANS

This business strategy's centre of gravity is the set of plans which will organize and govern Hydro Ottawa's proposed investments in capital and operational programs over the 2021-2025 period.

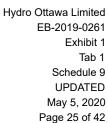
Capital expenditures relate to items that, once purchased, have lasting benefits over many years. These include the overhead and underground infrastructure (stations, poles, wires) that serve as the backbone of the distribution system, as well as supporting assets and equipment, such as facilities, vehicles, and computer systems. Operating expenditures pertain to recurring expenses that are incurred in the day-to-day management of Hydro Ottawa's activities, like maintenance of assets and equipment, tree trimming, customer billing, workforce training, and employee payroll.

Based upon customer feedback, Hydro Ottawa has crafted capital and operational plans that emphasize the following four core principles:

- 1. Minimize rate increases
- 2. Maintain reliability and service quality
- 3. Address key pressures to the system, including:
 - Aging infrastructure
 - An expanding customer base and continued population growth
 - The effects of severe weather events
- 4. Make prudent investments in emerging technologies to enhance service offerings and/or reduce operation costs.

7.1. CAPITAL PLAN

Hydro Ottawa's assessments of its capital needs, and its proposed expenditures for meeting them, are captured in the utility's Distribution System Plan ("DSP"). The DSP details how capital investments will be prioritized, paced, and optimized, while minimizing rate impacts for





customers and facilitating continuous improvement and productivity. The DSP is a core deliverable emerging from multiple internal and external planning processes related to capital investment, asset management, regional planning, customer engagement, and business strategy.

The investment proposals set forth in the DSP are organized into four categories – System Access, System Renewal, System Service, and General Plant. Projected expenditures, as well as the breakdown of programs, within each of these categories are outlined in the table below.

Table 2 – AS ORIGINALLY SUBMITTED – Annual Capital Investments (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5
System Service	\$31.0	\$27.4	\$24.3	\$25.2	\$23.9
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9
Capital Contributions	\$(41.3)	\$(25.2)	\$(19.9)	\$(19.2)	\$(19.3)
TOTAL	\$121.8	\$98.9	\$89.6	\$97.2	\$96.0

Table 2 – UPDATED FOR 2019 ACTUALS – Annual Capital Investments (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5
System Service	\$26.7	\$28.3	\$24.3	\$25.2	\$23.9
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9
Capital Contributions	\$(39.2)	\$(23.5)	\$(19.9)	\$(19.2)	\$(19.3)
TOTAL	\$119.5	\$101.5	\$89.6	\$97.2	\$96.0



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7.1.1. System Access

This category encompasses those investments that allow Hydro Ottawa to meet its obligation to connect customers to the grid. These expenditures are subdivided into specific programs focused on connecting customers (e.g. new residential and commercial developments, and customer-driven electric generation projects), relocating equipment to accommodate municipal infrastructure needs like road widening, and installing meters.

System Access - Capital Programs

- Plant Relocation & Upgrade
- · Residential Subdivision
- · Commercial Development
- System Expansion
- Embedded Generation
- Infill Service (Residential & Small Commercial)
- Metering

Major projects expected in this investment category during 2021-2025 include residential and commercial connections consistent with recent historical expenditures, system expansion, plant relocation (especially in relation to Stage 2 of Light Rail Transit in the City of Ottawa), and retrofits of bulk metered buildings to unit metering.

With the City of Ottawa continuing to experience a steady level of growth, and with the utility having recently averaged upwards of 4,000-5,000 new connections every year, System Access expenditures remain crucial to achieving positive outcomes in relation to customer expectations for service quality and responsiveness. Likewise, they will be critical to the success of flagship local infrastructure projects over the 2021-2025 period. There is also a nexus between this category of investment and the environmental benefits that accrue to customers and the community from increased deployment of distributed renewable generation, including net metered projects.

7.1.2. System Renewal

Included under the scope of this category is the replacement and refurbishment of system assets, in order to extend their original service life or replace them on an emergency basis. Of



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note, this activity touches the parts of Hydro Ottawa's grid that are either most visible (poles, wires, transformers, and stations) or least visible (underground cable and vaults) to the public. Together, these programs are aimed at alleviating one of the most significant pressures on the system –

System Renewal - Capital Programs

- Station Assets Renewal
- · Overhead Distribution Assets Renewal
- Underground Distribution Assets Renewal
- Corrective Renewal
- Damage to Plant

namely, mitigating the risk of the potential failure of end-of-life assets and equipment. The primacy of System Renewal is underscored by the fact that this grouping represents the largest share of the broader capital funding envelope.

Planned projects of note under this investment category include renewal of distribution poles, transformers, and stations, emergency replacement of overhead assets following severe weather events, rehabilitation of underground chamber assets, replacement of underground cable, and upgrades of various types of metering equipment that have reached end of life.

Key outcomes associated with System Renewal expenditures are improvements to overall system reliability, as well as reductions in the average duration and frequency of outages.

7.1.3. System Service

The purpose of these infrastructure upgrades and modifications is to enhance reliability and capacity on the grid, and ensure that the system continues to meet operational objectives while addressing future customer needs. Similar to the foregoing categories, System Service is comprised of its

System Service - Capital Programs

- Capacity Upgrades
- Distribution Enhancements
- Station Enhancements
- Grid Technologies
- Metering

own unique set of programs. Expenditures revolve around capacity upgrades that are intended to relieve constraints caused by load growth; system and station enhancements that improve operating characteristics, add redundancy, and strengthen the resilience against severe weather



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events; and deployment of grid technologies that augment the technological and communication capabilities of the system.

Major station projects in this category will be the development of new stations in the south Nepean and east Leitrim regions of the City of Ottawa, which are needed to accommodate customer load growth and to increase supply capacity in growing suburbs that have already reached the limits of local transformation capacity. Other major projects include upgrades to the functionality of Hydro Ottawa's Supervisory Control and Data Acquisition ("SCADA") system, enhancements to the Outage Management System, the installation of field area network infrastructure to enable greater automation in communications, roll-out of the next phase of the utility's MiGen smart energy project, deployment of cyber security and monitoring equipment at stations, and upgrades to customer meters to enable remote disconnections.

Maintaining current levels of reliability, while targeting those pockets of the system in which reliability performance is below average, are principal objectives driving this basket of investments.

7.1.4. General Plant

Whereas the three system-related categories discussed above relate to investments in the core components of Hydro Ottawa's distribution grid, General Plant covers expenditures on assets that are not part of the system. These include facilities, land, fleet, tools, equipment, information technology hardware and software, and other rolling stock that is used to support essential business activities.

General Plant - Capital Programs

- Buildings Facilities
- Customer Service
- Enterprise Resource Planning System
- Fleet Replacement
- ■ New Initiatives
- II Life Cycle & Enhancements
- Operation Initiatives
- Tools Replacement
- Facilities Implementation



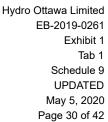
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Successful completion of General Plant projects is a key determinant of the efficiency and effectiveness of the utility's overall business performance. In many instances, the ability to follow through on commitments to customers and to safeguard employee health and safety hinges upon program expenditures in this category.

Key projects planned in this investment category for 2021-2025 include deployment of a digital Customer Relationship Management system enabling a 360-degree view of customer activity, migration of the enterprise resource planning system to a cloud-based platform, adoption of enhanced equipment and software to support crews in the field, replacement of critical IT infrastructure, implementation of cyber security safeguards, and upgrades to the numerous business systems responsible for collecting, processing, and validating incoming meter data.

Similarly, several of these investments will have multi-faceted value streams, insofar as they will enable Hydro Ottawa to achieve multiple performance outcomes at the same time. For example, enhancements to the Customer Care & Billing ("CC&B") system will better position Hydro Ottawa to assist customers in managing their energy needs, offer a more personalized experience, and ensure satisfaction with the utility's services. Beyond this, however, upgraded CC&B functionality will also introduce new options to customers for obtaining value-added products or services (e.g. direct deposit of credits into customers' bank accounts, and a wider range of options for payment methods and bill due dates), while simultaneously opening doors to opportunities for shared services with other utilities and services to third parties. The availability of this solution will expand customer choice and convenience as well as carve out space for growing revenue from new sources.

Finally, certain projects in this portfolio are set to serve as unique illustrations of the best-in-class innovation culture which Hydro Ottawa continuously seeks to foster. Examples include the deployment of artificial intelligence solutions in order to automate a number of business processes and enhance their efficiency and accuracy.





7.2. OPERATIONAL PLAN

Hydro Ottawa's responsibility to manage a safe and reliable distribution system, serve customers in a manner that is responsive to their needs and preferences, and maintain compliance with a broad range of legislative and regulatory requirements compel the utility to incur a level of costs that is proportionate to the magnitude of its operational obligations. These costs are spread across 14 different operations, maintenance and administration ("OM&A") program categories that serve to structure the myriad of activities which are part and parcel of keeping the lights on. Annual OM&A expenditures for the 2021-2025 rate term are outlined in the table below.

Table 3 – Annual OM&A Program Expenditures (\$'000,000s)

2021	2022	2023	2024	2025
\$93.9	\$96.3	\$98.7	\$101.2	\$103.7

The principal cost drivers underlying Hydro Ottawa's forecasted OM&A expenses include costs associated with legislative and regulatory compliance; operational investments needed for safety and reliability; employee compensation and training; ongoing support, maintenance, licensing, and protection of the company's IT systems; fuel; market priced contracts; and inflation.

Of note, during the internal budgeting process, the initial levels of OM&A submitted by the various divisions within the utility resulted in an overall OM&A Compound Annual Growth Rate ("CAGR") of 3.5% over the 2021-2025 period. In step with its commitment to continuous improvement and customer preferences for minimizing rate increases, Hydro Ottawa then applied a custom OM&A escalation factor to contain upward pressure on operational expenses and to embed productivity expectations throughout the 2021-2025 period. This lowered the overall OM&A CAGR to 2.51% and achieved a reduction of \$13.1 million in OM&A spending over the course of the rate term.



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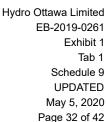
Moreover, Hydro Ottawa staff levels will not increase between 2021 and 2025, relative to staffing levels from 2019. Similarly, heading into this next Custom IR period, Hydro Ottawa is set to serve a larger number of customers than at the outset of its previous five-year rate plan (~323,000 as of the end of 2015 vs. ~340,000 as of the end of 2019 – an increase of over 5%). Both of these data points attest to the effectiveness of the utility's ongoing productivity and efficiency initiatives.

Hydro Ottawa's total operating costs are reported every year to the OEB and benchmarked against other distribution companies in Ontario. In the last year of publicly available data collected by the OEB, Hydro Ottawa's total operating cost per customer was \$260. Consistent with the pattern of recent years, this result compared favourably to the average cost per customer across all electricity distributors in the province (\$316).

7.3. INCORPORATING CUSTOMER FEEDBACK & PREFERENCES

Hydro Ottawa has designed its capital and operational plans to reflect the needs and priorities of customers, in both general and specific ways. Examples of how the utility has sought to incorporate the insights gleaned from extensive engagement with customers include the following:

- Certain proposals for capital spending have been deferred, as part of an asset needs
 rationalization process which was undertaken in order to prioritize the most critical
 projects for system reliability and maintenance and to identify opportunities for
 minimizing rate impacts.
- To further support efforts to defer capital spending and lower costs for customers, the use of non-wire alternatives is planned. In the Kanata North area, for example, a mix of conservation, load transfers, and voltage reductions solutions will be deployed to enable the deferral of a transmission-connected substation that had originally been identified as a need through the latest regional planning cycle.





- Critical investments in reliability-related projects are being paced in accordance with customer expectations for an appropriate level of service. One illustration in this regard is the prioritization of the construction of the new Cambrian Municipal Transformer Station in the early years of the rate period. This reflects the imperative to ensure sufficient capacity is available in an area which is forecasted to continue experiencing significant load growth over the next decade.
- A selective portfolio of prudent investments is planned in new technologies and solutions
 that will enhance the menu of service offerings available to customers and, in many
 cases, lead to reduced operational costs. These will open up new channels for
 customers to engage and transact with Hydro Ottawa, and continue the utility's
 movement to digital and cloud-based platforms which help eliminate the need for costly,
 on-premise IT infrastructure.
- Several steps are being taken to more formally incorporate climate change risk
 management into system planning processes and decision-making practices. The range
 of actions will include augmenting vegetation management practices, developing new
 anti-cascade standards for utility poles, and investing in greater automation capability for
 remote isolation and restoration of faulted system components.

Alongside the aforementioned examples, the ongoing implementation of productivity and efficiency initiatives will play a crucial role in minimizing operating costs. Specific examples of productivity are discussed in the ensuing section.

8. PRODUCTIVITY AND CONTINUOUS IMPROVEMENT

Responsibly controlling costs and focusing on cost-effective delivery of outcomes that matter to customers remain core priorities for Hydro Ottawa. Amidst the unique confluence of demands, pressures, and constraints on operations, the utility is placing increased emphasis on incorporating productivity and continuous improvement gains, so as to offset increasing expenditures and boost organizational capacity. Hydro Ottawa is therefore committed to



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ensuring that productivity and continuous improvement serve as hallmarks of its 2021-2025 rate plan.

8.1. 2016-2020 INITIATIVES

A retrospective glance at the outcomes and efficiencies derived from productivity initiatives during the preceding five-year rate period demonstrates that there is a firm foundation upon which to build. During the 2016-2020 period, Hydro Ottawa successfully executed a wide spectrum of initiatives which resulted in tangible savings to customers – and at no expense to service quality or system reliability. Headlining this deep pool of initiatives were the following:

- Enhancements to the customer contact centre, giving customers an improved experience through access to more efficient service and a broad range of options for communicating with Hydro Ottawa through the channel of their choice;
- Introduction of new digital tools, such as a mobile application and Smart Speaker skills
 (a first in the Canadian electric utility sector), to take customer service to the next level of
 convenience and sophistication;
- Movement away from manual, paper-based processes and adoption of electronic solutions to support core business systems and practices, including the enterprise resource planning platform, field crew scheduling, fleet management, and planned outage communications;
- Consolidation and modernization of administrative and operational facilities; and
- Workforce stabilization and optimization, through such measures as reallocation of vacant positions to trades hiring and reduction of both on-call and overtime costs.

8.2. 2021-2025 INITIATIVES

Whether through harnessing the potential of new technologies and solutions to better serve customers, elevating standards of business performance and excellence, or rationalizing and re-purposing resources, Hydro Ottawa is set to continue strengthening its culture of continuous improvement over the course of its next five-year rate term.



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In accordance with internal guidelines for the preparation of plans and budgets for the 2021-2025 period, each administrative division within the utility was mandated to demonstrate productivity savings in a quantitative and/or qualitative fashion, and to identify initiatives dedicated to continuous improvement. This provides assurance that productivity and cost control objectives are firmly integrated into the business planning process.

A survey of the productivity initiatives planned over the next rate plan horizon reveals the following highlights:

- Movement of enterprise resource planning system to a cloud-based solution, thereby enabling greater administrative efficiency, reduced system maintenance costs, and timely access to new functionality;
- Integration of the recent SCADA system upgrade with the existing Outage Management System and a new Distribution Management System, enabling superior functionality and automation, and providing control room operators with line of sight and situational awareness through a single interface;
- Deployment of a digital platform for Customer Relationship Management, enabling a 360-degree view of customer activity across the utility;
- Increased deployment and further innovation in voice-activated digital assistance technology, for use in customer service and experience applications;
- Implementation of robotic process automation capabilities across multiple business units and programs, in order to more efficiently and expeditiously execute highly transactional activities;
- Renegotiation of contracts with external service providers for underground cable locates and vegetation management;
- Replacement of outdated phone lines for advanced metering infrastructure systems with modernized data collection nodes, which offer more extensive communications reach and enhanced resiliency against power interruptions;



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- Deployment of a cloud-based platform to optimize the use and value of advanced metering infrastructure data analytics, as a means of driving operational efficiencies across a wide range of core business functions;
- Increase in the number of Alternate Locate Agreements;
- Enhanced productivity and reduced overtime costs for crews, on account of the implementation of seasonal construction schedules which aim to shift work away from the winter season, during which construction is more costly and inefficient due to environmental and operational constraints;
- Rationalizing and right-sizing of the utility's vehicle fleet through analytics of vehicle utilization;
- Achievement of 4% increase in daily available wrench time for crews; and
- Administration of internal programs dedicated to optimizing the lifecycle management and enhancement of IT assets.

8.3. BENCHMARKING

The preparation of this Business Plan was supported by year-over-year comparisons of Hydro Ottawa's costs and outcomes, along with evaluations of the utility's performance against its peers. Tracking and analysis of trends in the achievement of system reliability, customer value, and financial strength outcomes have informed the scope and substance of particular capital and OM&A programs. Similarly, the benchmarking of Hydro Ottawa's expenditures and performance relative to samples of utilities across Ontario, Canada, and the United States has yielded valuable insights into areas in which the utility performs well and those in which there is room for improvement. These findings have been internalized and incorporated into specific work programs, and will serve as important baselines and points of reference against which to measure the utility's progress.

As the implementation of Hydro Ottawa's capital and operational plans unfolds over the 2021-2025 period, the use of internal and external benchmarking will remain a vital tool for monitoring and measuring performance. The utility fully anticipates undertaking additional



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benchmarking analysis during the rate term, as a means of supporting its broader performance management and business planning framework, as well as its system and asset management planning processes.

9. ALIGNMENT WITH THE RENEWED REGULATORY FRAMEWORK

The primary objectives animating Hydro Ottawa's corporate vision are wholly consistent with the main performance outcomes promoted under the OEB's Renewed Regulatory Framework ("RRF"). Hydro Ottawa views this broad alignment as a competitive advantage and remains committed to firmly entrenching RRF principles and objectives throughout its operations and business.

Table 4 below illustrates the alignment between the utility's overarching objectives and the key categories of performance outcomes under the RRF. For additional context, the table also shows the congruence of Hydro Ottawa's high-level performance goals and strategic outcomes – which are utilized to measure progress in achieving the strategic objectives – with the RRF's areas of focus.



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Table 4 – Alignment of Corporate Strategic Objectives with RRF Performance Outcomes

OEB RRF Performance Outcomes	Key Area of Focus	Corporate Performance Goal	Strategic Outcome
Customer Focus	Customer Value	 Assist customers in managing their energy consumption and electricity costs Deliver on customer expectations for service quality and responsiveness Maintain overall distribution system reliability 	Customer loyalty and satisfaction
Operational Effectiveness	Organizational Effectiveness	 Continue to enhance operational performance and productivity Maintain leading health and safety record Enhance organizational and employee capability 	 Efficient and effective operations Safe and healthy work environment Engaged, aligned and prepared workforce
Public Policy Responsiveness	Corporate Citizenship	 Enhance our brand image in the community and the industry Continue to improve our environmental performance and reduce our impact on the environment 	 Leading governance and business practices Engaged stakeholders Safe, secure and environmentally responsible services Positive community impact
Financial Performance	Financial Strength	 Grow revenues from new sources Enhance / protect revenues from existing business lines 	Growth in shareholder value

9.1. PERFORMANCE MEASUREMENTS

In accordance with the RRF's emphasis on achieving outcomes that provide value to customers, Hydro Ottawa is committing to a robust performance measurement and reporting framework for the upcoming five-year rate period. This framework expands and builds upon the success of the one that was in place for 2016-2020, and will maintain the approach of combining standard OEB performance measures with others that are customized for Hydro Ottawa's unique use.

As displayed in the table below, an integral component of this framework is the set of measures that will form the basis of Hydro Ottawa's 2021-2025 Custom Performance Scorecard. These

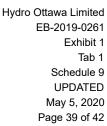


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measures have been selected based upon a variety of factors and drivers, including responsiveness to customer preferences, alignment with core RRF and corporate strategic objectives, and correlation to key findings from the benchmarking analyses performed in support of this Business Plan.

Table 5 – Custom Performance Scorecard Measures

Outcome	OEB Reporting Category	Hydro Ottawa Custom Measures	New/Existing	Target
		Contact Centre Satisfaction – Transactional Feedback	New	Maintain
Customer Focus	Customer Satisfaction	Number of MyAccount Customers	New	Increase
	Canolaction	Number of Online Billing Accounts	New	Increase
	Safety	All Injury/Illness Frequency Rate	New	Reduce
	Salety	Lost Workday Severity Rate	New	Reduce
		Customer Average Interruption Duration Index	Existing	Monitor
		Feeders Experiencing Multiple Sustained Interruptions	Existing	Maintain
		Worst Feeder Analysis – Number of Feeders with Very Poor Performance	Existing	Reduce
	System Reliability	Stations Exceeding Planning Capacity	Existing	≤5%
		Feeders Exceeding Planning Capacity	Existing	≤10%
Operational Effectiveness		Stations Approaching Rated Capacity	Existing	0%
Ellectivelless		Feeders Approaching Rated Capacity	Existing	0%
	Cost Control	Productive Time	Existing	Maintain
		Labour Allocation	Modified	Maintain
		3-Year Average Cost per Pole – Wood Pole Replacement	New	Monitor
	Cost Control	3-Year Average Cost per Meter – Underground Cable	New	Monitor
		Average Cost per Kilometer – Vegetation Management	New	Monitor
		Average Cost per Pole – Pole Test and Inspection	New	Monitor
	Asset Efficiency	Technology Infrastructure Cost per Employee	New	Monitor
		Annual Oil Spills & Costs of Remediation	Existing	Reduce
Public Policy Responsiveness	Environment	Non-Hazardous Waste Diversion Rate	New	Maintain
		Percentage of Green Suppliers	New	Maintain
		OM&A per Customer	New	Monitor
Financial	Financial Mate	Bad Debt as a Percentage of Total Electricity Revenue	New	Monitor
Performance	Financial Metrics	Cumulative Capital Additions per Investment Category	New	Monitor
		Annual Capital Spending per Investment Category	New	Monitor





Consistent with the prescriptions of the RRF, this proposed reporting regime is intended to equip the OEB, customers, and other stakeholders with the ability to better monitor and understand diverse aspects of Hydro Ottawa's performance, and to demonstrate the utility's accountability in transparently communicating the outcomes achieved under its performance management framework.

10. REVENUE REQUIREMENT & BILL IMPACTS

The Revenue Requirement and Bill Impacts associated with Hydro Ottawa's proposed 2021-2025 capital and operational plans are summarized in the tables below.

Table 6 – AS ORIGINALLY SUBMITTED – Revenue Sufficiency/Deficiency (\$'000s)

	2021	2022	2023	2024	2025
Return on Rate Base	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027
Payment in Lieu of Taxes	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689
Service Revenue Requirement	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053
Less Revenue Offsets: Per Approved Settlement Agreement ¹ Adjustment per Pole Attachment Decision ²	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596
Transformer Ownership Allowance	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483
Forecasted Load at 2020 Rates	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468
Cumulative Revenue Deficiency (over 2020)	\$(17,060)	\$(33,149)	\$(43,719)	\$(51,609)	\$(57,014)
Yearly Revenue Deficiency over 2020	\$(17,060)	\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)

¹ This refers to the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term, which was approved by the OEB in 2015.

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

² This refers to an OEB decision from 2016 which authorized Hydro Ottawa to use a utility-specific rate for pole attachments.

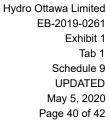




Table 6 – UPDATED FOR 2019 ACTUALS – Revenue Sufficiency/Deficiency (\$'000s)

	2021	2022	2023	2024	2025
Return on Rate Base	\$68,158	\$74,253	\$78,242	\$80,677	\$85,470
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,333	\$56,699	\$59,015	\$60,585	\$63,900
Payment in Lieu of Taxes	\$2,224	\$3,881	\$8,604	\$11,533	\$7,590
Service Revenue Requirement	\$216,638	\$231,113	\$244,558	\$253,969	\$260,674
Less Revenue Offsets: Per Approved Settlement Agreement ³ Adjustment per Pole Attachment Decision ⁴	\$11,013	\$10,971	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$205,624	\$220,142	\$232,891	\$241,817	\$248,217
Transformer Ownership Allowance	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104
Forecasted Load at 2020 Rates	\$187,888	\$188,816	\$189,699	\$190,686	\$191,453
Cumulative Revenue Deficiency (over 2020)	\$(18,792)	\$(32,381)	\$(44,248)	\$(52,190)	\$(57,651)
Yearly Revenue Deficiency over 2020	\$(18,792)	\$(13,589)	\$(11,867)	\$(7,942)	\$(5,461)

³ This refers to the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term, which was

approved by the OEB in 2015.

⁴ This refers to an OEB decision from 2016 which authorized Hydro Ottawa to use a utility-specific rate for pole attachments.



Table 7 - AS ORIGINALLY SUBMITTED - Distribution Bill Impacts by Customer Class

	Year-over-Year Distribution % Change					
Rate Class	2021	2022	2023	2024	2025	Average
Residential	4.57%	7.28%	5.73%	2.88%	1.75%	4.44%
GS < 50 kW	2.44%	6.94%	6.59%	3.66%	2.61%	4.45%
GS > 50 to 1,499 kW	5.20%	8.55%	6.93%	3.80%	2.83%	5.46%
GS > 1,500 to 4,999 kW	4.22%	8.43%	6.93%	3.80%	2.30%	5.13%
Large Use	11.36%	8.09%	6.53%	3.54%	2.20%	6.35%
Street Lighting	(9.98)%	14.07%	8.92%	3.46%	2.91%	3.87%
Sentinel Lighting	14.46%	20.46%	16.54%	12.33%	10.44%	14.84%
Unmetered Scattered Load	2.42%	11.76%	9.33%	6.10%	5.07%	6.93%

Table 7 – UPDATED FOR 2019 ACTUALS – Distribution Bill Impacts by Customer Class

	Year-over-Year Distribution % Change					
Rate Class	2021	2022	2023	2024	2025	Average
Residential	6.91%	6.15%	4.74%	2.91%	1.77%	4.49%
GS < 50 kW	4.05%	6.76%	5.65%	3.64%	2.60%	4.54%
GS > 50 to 1,499 kW	3.21%	7.37%	10.42%	3.81%	2.84%	5.53%
GS > 1,500 to 4,999 kW	3.40%	7.21%	9.30%	3.79%	2.32%	5.20%
Large Use	9.57%	6.92%	9.42%	3.55%	2.22%	6.34%
Street Lighting	(3.89)%	8.26%	8.94%	3.55%	3.00%	3.97%
Sentinel Lighting	18.02%	18.64%	15.32%	12.43%	10.53%	14.99%
Unmetered Scattered Load	3.54%	9.64%	9.61%	6.13%	5.10%	6.80%

11. CONCLUSION

The 2021-2025 period represents a unique moment in time for Hydro Ottawa. It follows on the heels of what was, by numerous measures, a highly successful five-year window in which the utility executed its first-ever Custom IR rate plan. With the benefit of the outcomes and knowledge gained over the course of 2016-2020, the utility is poised to enter the next chapter of



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its journey towards a smart energy future in a position of strength and with a positive track record.

However, the landscape has shifted appreciably since the OEB last approved a rebasing application from Hydro Ottawa. Despite the robust progress made in replacing aging infrastructure, continued investment to mitigate the risk of asset failure remains a critical priority, with over 19% of assets having reached the end of their useful lives. At the same time, the steady level of growth which the City of Ottawa is experiencing means that expanding the distribution grid and ensuring access for new customers are urgent imperatives as well. Together with the demands posed by more frequent and more acute severe weather events, heightened customer expectations for greater convenience and choice, and the rapid evolution of operational technologies and threats, these pressures present an immensely challenging landscape for Hydro Ottawa to navigate. Against the backdrop of an increasingly complex and fluid policy environment, these pressures are magnified even further.

Accordingly, the utility requires a comprehensive, data-driven, customer-sanctioned roadmap through which it can chart its course for the next five years. Hydro Ottawa is confident that this Business Plan will effectively fulfill this need. The utility welcomes the opportunity to move this strategy forward and to deliver the attendant benefits to its customers and community.



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UPDATED ALIGNMENT WITH THE RENEWED REGULATORY FRAMEWORK

2 3

1

INTRODUCTION 1.

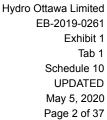
In 2012, the OEB adopted its current performance-based approach to regulation, through the release of its report entitled Renewed Regulatory Framework for Electricity Distributors: A Performance Based Approach (hereafter referred to as the "RRFE Report"). This paradigm, 7 which the OEB has since applied to all rate-regulated utilities under its jurisdiction and has captioned as the "Renewed Regulatory Framework" ("RRF"), is intended to serve several key purposes: act as a more consumer-centric approach to utility regulation; better align the interests of customers and utilities; facilitate the achievement of distinct performance outcomes by utilities; and place a greater focus on delivering value for money.²

12

A cornerstone of the RRF is a set of outcomes, against which utilities are measured as a means of gauging the strength of their overall performance in delivering results that are valued by customers. The categories of RRF performance outcomes are as follows: Customer Focus, Operational Effectiveness, Public Policy Responsiveness, and Financial Performance. Complementing these outcome categories are core principles that underpin the RRF, including "the expectation for continuous improvement, robust integrated planning and asset management that paces and prioritizes investments, strong incentives to enhance utility performance, ongoing monitoring of performance against targets, and customer engagement to ensure utility plans are informed by customer expectations." Rounding out the key components of the RRF is a three-pronged policy platform aimed at facilitating the achievement of performance outcomes: availability of three rate-setting methods, the individual selection of 24 which is at the discretion of the utility, based upon its unique needs and circumstances; 25 formalized requirements for distribution system planning and regional planning; and standards 26 to measure utility performance.

²⁷ Ontario Energy Board, Report of the Board - Renewed Regulatory Framework for Electricity Distributors: A 28 Performance-Based Approach (October 18, 2012).
29 ² Ibid, page 1.

³⁰ Ontario Energy Board, Handbook for Utility Rate Applications (October 13, 2016), page 2.





Since the inception of the RRF, Hydro Ottawa has endeavoured to incorporate RRF principles

2 across its business operations, execute its corporate plans and capital investment programs in

3 accordance with RRF objectives, and continually align its interests with those of its customers.

In particular, Hydro Ottawa believes that this commitment has been on full display throughout its

5 2016-2020 rate term.

6

7 The establishment of the utility's 2016-2020 rate term was enabled by a finding from the OEB

8 that Hydro Ottawa's 2016-2020 Custom Incentive Rate-setting ("Custom IR") application, and

9 the subsequent settlement proposal prepared by parties to the proceeding, met the expectations

of the RRF for a Custom IR.⁴

11

Moreover, in step with the RRF's emphasis on the achievement of performance outcomes, the utility has closely tracked the achievement of RRF performance outcomes over the course of its rate term. This monitoring has taken the form not only of the Electricity Utility Scorecard that is issued annually for all local distribution companies ("LDCs"), but of additional measures and methods as well. Chief among these has been the preparation and filing of an annual report ("CIR Annual Report") to the OEB and parties to the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 Custom IR rate plan. These CIR Annual Reports have provided updates on actual capital expenditures by program type (i.e. System Access, System Service and System Renewal, and General Plant) vs. budgeted capital expenditures by program type and appropriate variance analysis. In addition, the CIR Annual Reports have tracked the utility's continuous improvement using a series of Key Performance Indicators ("KPIs") that were incorporated into Hydro Ottawa's 2016-2020 Distribution System Plan ("DSP"). For additional information on these CIR Annual Reports, please see Exhibit 1-1-11: Proposed Annual Reporting - 2021-2025.⁵

^{26 4} Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015), page 1.

²⁷ These reports are available on Hydro Ottawa's website:

²⁸ https://hydroottawa.com/about-us/regulatory-affairs/custom-incentive-reports.



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1 In addition, Hydro Ottawa has annually prepared a summary of initiatives and outcomes 2 emanating from the 2016-2020 rate plan which align with the outcome categories enshrined in the RRF. These summaries - which have been pro-actively developed on a voluntary basis have helped support the fostering of a culture of continuous improvement across the utility. Copies of these summaries for the years 2016, 2017, and 2018 have been appended to this

Schedule as Attachments 1-1-10(A), (B), and (C), respectively.

7

This Schedule outlines how the Application aligns with the hallmark precepts, objectives, and expectations of the RRF. Specific matters that will be addressed are as follows: broader alignment between Hydro Ottawa's corporate strategic objectives and RRF performance outcomes; customer engagement; rate-setting elements, including selection of the Custom IR option; performance measurement, continuous improvement, and benchmarking; and distribution system planning.

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15 **2. ALIGNMENT BETWEEN CORPORATE STRATEGY & RRF OUTCOMES**

Before highlighting the specific ways in which this Application aligns with essential features of the RRF, Hydro Ottawa wishes to establish some broader context. Namely, it seems appropriate to first draw attention to the more fundamental alignment between the categories of performance outcomes under the RRF and the principal areas of focus in the utility's business strategy. 20

21

Hydro Ottawa's vision is to serve as the trusted energy advisor for its customers and as a leading partner in a smart energy future. To achieve this vision, the utility has organized its business strategy around four strategic objectives and areas of performance for several years – as represented in Figure 1 below. Hydro Ottawa will maintain continuity in its core objectives 25 heading into the 2021-2025 period. Consistent with past years, the renewed strategic objectives are being formally adopted at the holding company level and will cascade across the enterprise,

28 thereby guiding the business and operations of the regulated distribution utility.

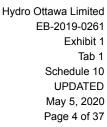




Figure 1 – Corporate Strategic Objectives

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Customer Value Corporate

- Customer Value: we will deliver value across the entire customer experience by providing reliable, responsive, and innovative services at competitive rates.
- Organizational Effectiveness: we will achieve performance excellence by cultivating a culture of innovation and continuous improvement.
- Financial Strength: we will create sustainable growth in our business and our earnings by improving productivity and pursuing business growth opportunities that leverage our strengths – our core capabilities, our assets, and our people.
- Corporate Citizenship: we will contribute to the well-being of the community by acting at all times as a responsible and engaged corporate citizen.
- 27 Of these objectives, the most important driver of Hydro Ottawa's business strategy will remain 28 Customer Value, with the utility striving to put the customer at the centre of everything it does.
- 30 The primary objectives animating Hydro Ottawa's corporate vision are wholly consistent with the 31 main performance outcomes promoted under the RRF, as illustrated in Table 1 below. For



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1 additional context, the table also shows the congruence of Hydro Ottawa's high-level

2 performance goals and strategic outcomes - which are utilized to measure progress in

3 achieving the strategic objectives – with the RRF's areas of focus.

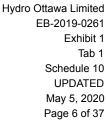
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Table 1 – Alignment of Hydro Ottawa's Corporate Strategic Objectives with RRF Performance Outcomes

RRF Performance Outcomes	Hydro Ottawa Strategic Objective	Hydro Ottawa Corporate Performance Goal	Hydro Ottawa Strategic Outcome
Customer Focus	Customer Value	 Assist customers in managing their energy consumption and electricity costs Deliver on customer expectations for service quality and responsiveness Maintain overall distribution system reliability 	Customer loyalty and satisfaction
Operational Effectiveness	Organizational Effectiveness	 Continue to enhance operational performance and productivity Maintain leading health and safety record Enhance organizational and employee capability 	 Efficient and effective operations Safe and healthy work environment Engaged, aligned, and prepared workforce
Public Policy Responsiveness	Corporate Citizenship	 Enhance our brand image in the community and the industry Continue to improve our environmental performance and reduce our impact on the environment 	 Leading governance and business practices Engaged stakeholders Safe, secure and environmentally responsible services Positive community impact
Financial Performance	Financial Strength	Grow revenues from new sources Enhance / protect revenues from existing business lines	Growth in shareholder value

7





1 Hydro Ottawa views this broad alignment as a competitive advantage and as further

2 reinforcement of the imperative - as well as the value - of remaining firmly committed to

3 entrenching RRF principles and objectives throughout its business and operations.

4

5 Against the backdrop of this high-level alignment between its corporate objectives and RRF

6 performance outcomes, Hydro Ottawa will focus the subsequent sections of this Schedule on

7 the alignment of this Application with more specific elements of the RRF.

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9 3. CUSTOMER ENGAGEMENT

10 The OEB's Handbook for Utility Rate Applications states the following:

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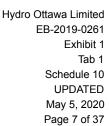
"Customer engagement is foundational to the RRF. Enhanced engagement between utilities and their customers provides better alignment between utility plans and customers' needs and expectations...Utilities are expected to demonstrate value for money by delivering genuine benefits to customers and providing services in a manner which is responsive to customer preferences. Customer engagement is expected to inform the development of utility plans, and utilities are expected to demonstrate in their proposals how customer expectations have been integrated into their plans, including the trade-offs between outcomes and costs."

19 20

Providing customers with value for money and facilitating a customer experience that is driven by choice are cornerstones of Hydro Ottawa's business planning. In step with its overall business strategy to put the customer at the centre of everything it does, the utility endeavours to ensure that its capital and operational investment plans are guided and informed by customer needs, preferences, and priorities. In order to identify and learn about customers' expectations, Hydro Ottawa avails itself of numerous tools and interactions to engage customers on an ongoing basis. Moreover, for the purposes of informing the development of the specific plans and proposals set forth in this Application, Hydro Ottawa undertook targeted outreach to customers as well.

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³⁰ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 11.





- 1 For more details on the utility's customer engagement activities, and their consistency with RRF
- 2 expectations for responsiveness to customer priorities and needs, please see Exhibit 1-2-1:
- Customer Engagement Overview and Exhibit 1-2-2: Customer Engagement on the 2021-2025
- Application.

5

RATE-SETTING FRAMEWORK 4. 6

7 The OEB has developed and continues to administer a trio of related policies that are intended

- to facilitate the achievement of the core performance outcomes embedded in the RRF.7 These
- policies are rate-setting, planning, and measuring performance. The remainder of this Schedule
- describes how this Application fulfills the expectations of each of these policies.

11

12 **4.1**. SELECTION OF CUSTOM INCENTIVE RATE-SETTING OPTION

The RRF makes three distinct rate-setting methods available to electricity distributors. The RRFE Report describes them, and their corresponding fitness for the differing circumstances and needs of distributors, as follows: 4th Generation Incentive Rate-setting (suitable for most distributors); Custom Incentive Rate-Setting (suitable for those distributors with large or highly variable capital requirements); and the Annual Incentive Rate-Setting Index (suitable for distributors with limited incremental capital requirements).8

19

In this Application, Hydro Ottawa has opted to avail itself of the Custom IR method. A principal justification for this decision is the sustained need on the horizon for significant levels of capital investment in the utility's distribution system, in order to maintain overall system performance and meet customer preferences – all while safeguarding rates at a reasonable level. This need is the result of several factors, including aging infrastructure, an expanding customer base, continued growth across the City of Ottawa, and the effects of severe weather events. Major capital initiatives that are required over the course of the upcoming rate term include the 27 construction of new distribution stations in growing areas of the city, the connection of

²⁸ ⁷ RRFE Report, page 3.

²⁹ 8 *Ibid*.



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- 1 thousands of new customers every year, infrastructure upgrades and modifications to enhance
- 2 reliability and capacity on the grid, replacement of equipment that has reached the end of its
- 3 useful life, strengthening the grid's ability to withstand severe weather events, support for local
- 4 infrastructure projects like Ottawa's Light Rail Transit, and renewal of the utility's vehicle fleet.
- 5 Table 2 below summarizes the projected breakdown of total capital investments during each
- 6 year of the 2021-2025 period.

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Table 2 – AS ORIGINALLY SUBMITTED – 2021-2025 Annual Capital Expenditures (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$31.0	\$27.4	\$24.3	\$25.2	\$23.9	\$26.4
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(41.3)	\$(25.2)	\$(19.9)	\$(19.2)	\$(19.3)	\$(25.0)
TOTAL	\$121.8	\$98.9	\$89.6	\$97.2	\$96.0	\$100.7

Table 2 – UPDATED FOR 2019 ACTUALS – 2021-2025 Annual Capital Expenditures (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$26.7	\$28.3	\$24.3	\$25.2	\$23.9	\$25.7
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(39.2)	\$(23.5)	\$(19.9)	\$(19.2)	\$(19.3)	\$(24.2)
TOTAL	\$119.5	\$101.5	\$89.6	\$97.2	\$96.0	\$100.8



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This five-year envelope for capital investment translates into an annual average expenditure

requirement of \$100.7M. After accounting for 2019 actuals, this figure increases slightly to

\$100.8M. This figure mirrors (but falls short of) the annual average of capital expenditures

budgeted for in Hydro Ottawa's 2016-2020 Custom IR application, which was \$107.5M. Of note,

this latter figure represents the highest annual average from any multi-year rate term in the

utility's history.9

7

The close alignment of the annual averages for capital expenditures from the 2016-2020 and

2021-2025 rate terms is wholly consistent with the direction signalled in Hydro Ottawa's

2016-2020 Custom IR application, which articulated the expectation that a historically high level

of annual capital expenditures "will be sustained, if not increased, through the decade from

2020-2030."10

13

While Hydro Ottawa's large, multi-year capital investment needs are one of the main drivers

behind the decision to select the Custom IR option, considerations with respect to operational

funding were likewise germane. In particular, the requirement to embed productivity gains into

the annual rate adjustment mechanism helps to ensure greater convergence between Hydro

Ottawa's interests and those of its customers, who wish to see continuous improvement on the

utility's part in delivering outcomes in an efficient and cost-effective manner.

20

Accordingly, Hydro Ottawa maintains that the Custom IR method remains the most suitable

rate-setting option for governing the 2021-2025 rate term. The ensuing sub-sections explain in

greater detail the specifics of the rate-setting framework that the utility has customized for the

24 purposes of its five-year rate plan.

²⁵ For additional information on Hydro Ottawa's 2016-2020 capital expenditures, please see UPDATED Exhibit 2-4-1:

Capital Expenditure Summary.
 Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-setting Distribution Rate Application, EB-2015-0004

^{28 (}April 29, 2015), Exhibit A-2-1, page 10.



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1 4.2. YEAR ONE - STANDARD REBASING

This Application is based on a Custom IR approach for a five-year period, consistent with the

3 OEB's RRF as set out in the Handbook for Utility Rate Applications. The first Test Year of the

five-year period (2021) is a standard rebasing approach, consistent with the OEB's 4th

Generation Incentive Regulation approach.

6

7 Hydro Ottawa has developed and submitted a forecast of its base revenue requirement for 2021

8 in this Application, as well as detailed forecasts of its costs based on its capital and operational

plans for 2021.11 In keeping with the rate adjustment formula used in its 2016-2020 Custom IR

rate plan, Hydro Ottawa has assumed the Conference Board of Canada's updated inflation rate

of 2.01% for all non-compensation-related costs. The calculated revenue requirement resulting

from these projections is detailed in **UPDATED** Exhibit 6-1-1: Calculation of Revenue Deficiency

or Sufficiency.

14

The forecasted costs in this Application were developed with the benefit of information obtained

from several external and internal benchmarking studies (see Exhibit 1-1-12: Benchmarking).

These studies helped inform Hydro Ottawa's plans and expenditures. In addition, these plans

were developed with the benefit of significant customer engagement including surveys, focus

groups, town hall meetings, special studies, and ongoing day-to-day customer interactions. The

full extent of Hydro Ottawa's customer engagement is detailed in Exhibit 1-2-1: Customer

Engagement Overview and Exhibit 1-2-2: Customer Engagement on the 2021-2025 Application.

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23 4.3. YEARS TWO THROUGH FIVE - RATE FRAMEWORK: CUSTOM PRICE **ESCALATION FACTOR**

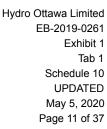
As established by the RRF, under Price Cap Incentive Rate-Setting, rates are adjusted using a

formulaic approach in the years following the first year base rates. This formula consists of a

27 two-component Price Cap Index ("PCI"): inflation and productivity. For electricity distributors, the

²⁸ ¹¹ See UPDATED Exhibit 1-1-9: Business Plan, UPDATED Exhibit 2-4-1: Capital Expenditure Summary, Exhibit 2-4-3:

²⁹ Distribution System Plan, and UPDATED Exhibit 4-1-1: Operations, Maintenance and Administration Summary.





1 formula includes an industry-specific inflation factor and two factors for productivity. One

2 productivity factor is a fixed value for industry-wide productivity. The other is a stretch factor

3 which is set each year based on the level of efficiency the distributor has achieved, as evaluated

4 by the Pacific Economics Group's ("PEG") econometric model.

5

6 Under a Custom IR approach, the annual rate adjustment must be based on a custom index

7 supported by empirical evidence that can be tested. The annual adjustment must include explicit

8 financial incentives for continuous improvement and cost control targets. As noted in the OEB's

9 Handbook for Utility Rate Applications, "these incentive elements, including a productivity factor,

10 must be incorporated through a custom index or an explicit revenue reduction over the term of

11 the plan (not built into the cost forecast)."12

12

13 As a result, Hydro Ottawa is proposing to adopt a Custom Price Escalation Factor ("CPEF") rate

14 framework for years two through five, which is based on the approach approved by the OEB in

15 the utility's 2016-2020 Custom IR application. 13 This framework is aligned with OEB policy and

16 based on sound ratemaking principles. The CPEF incorporates the OEB's key principles and

17 expectations of a Custom IR application, and thus has been structured in a way that:

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- Includes productivity gains as part of the rate adjustment mechanism;
- Constrains operational funding increases going forward at approximately the rate of inflation; and
 - Acknowledges the funding requirements to address Hydro Ottawa's significant, multi-year investment needs over the 2021-2025 period.

24

25 The OEB has provided specific guidance with respect to Custom IR applications and

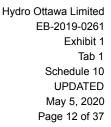
26 expectations for the annual rate adjustment index. The Handbook for Utility Rate

27 *Applications* states the following:

. .

²⁸ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 25.

²⁹ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015), page 1.



HydroOttawa

"Custom IR: Under this methodology, rates are set for five years considering a five-year forecast of the utility's costs and sales volumes. This method is intended to be customized to fit the specific utility's circumstances, but expected productivity gains will be explicitly included in the rate adjustment mechanism. Utilities adopting this approach will need to demonstrate a high level of competence related to planning and operations.

Index for the Annual Rate Adjustment: The annual rate adjustment must be based on a custom index supported by empirical evidence (using third party and/or internal resources) that can be tested. Custom IR is not a multi-year cost of service; explicit financial incentives for continuous improvement and cost control targets must be included in the application. These incentive elements, including a productivity factor, must be incorporated through a custom index or an explicit revenue reduction over the term of the plan (not built into the cost forecast).

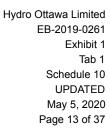
The index must be informed by an analysis of the trade-offs between capital and operating costs, which may be presented through a five-year forecast of operating and capital costs and volumes. If a five-year forecast is provided, it is to be used to inform the derivation of the custom index, not solely to set rates on the basis of multi-year cost of service. An application containing a proposed custom index which lacks the required supporting empirical information may be considered to be incomplete and not processed until that information is provided.

It is insufficient to simply adopt the stretch factor that the OEB has established for electricity distribution IRM applications. Given a utility's ability to customize the approach to rate-setting to meet its specific circumstances, the OEB would generally expect the custom index to be higher, and certainly no lower than the OEB-approved X factor for Price Cap IR (productivity and stretch factors) that is used for electricity distributors."

The CPEF adheres to this guidance and consists of three main components: a custom inflation factor, a two-component productivity factor and a growth factor. Supplementary evidence is supplied in support of each factor below. As previously noted, year one is a traditional rebasing year, with costs allocated and rates set on the basis of a forecast Test Year. Distribution rates in years two through five are adjusted annually by the CPEF, as follows:

. .

³⁶ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13,2016), pages 25-26.





1	CPEF = I - X + G
2	where
3	"I" is the inflation factor (see section 4.3.1 below)
4	"X" is the two-component productivity factor (see section 4.3.2 below)
5	"G" is the growth factor (see section 4.3.3 below)
6	
7	As referenced above, this approach is consistent with the OEB's RRF guidance on Custom IR
8	applications. This formulaic approach with customization reflects Hydro Ottawa's significantly
9	large, multi-year investments within the 2021-2025 period, while embedding productivity savings
10	for the customer.
11	
12	4.3.1. "I" Factor: Inflation Factor
13	In its 2013 report, Rate Setting Parameters and Benchmarking under the Renewed Regulatory
14	Framework for Ontario's Electricity Distributors, the OEB established a methodology for
15	determining its annual inflation factor for use in incentive-based rate adjustment mechanisms. ¹⁵
16	The OEB's two-factor inflation factor is based on the weighted sum of the following sub-indices:
17	
18	 Non-Labour: 70% of the annual percentage change in Canada's Gross Domestic
19	Product Implicit Price Index ("GDP-IPI") Final Domestic Demand ("FDD"), as reported by
20	Statistics Canada; and
21	 Labour: 30% of the annual percentage in the Average Weekly Earnings ("AWE") for
22	workers in Ontario, as reported by Statistics Canada.
23	
24	The OEB's inflation factor can be calculated as follows:

^{25 15} Ontario Energy Board, Report of the Board - Rate Setting Parameters and Benchmarking under the Renewed 26 Regulatory Framework for Ontario's Electricity Distributors, EB-2010-0379 (November 21, 2013), pages 5-11.



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Inflation Factor = 0.70 × ΔGDP-IPI (FDD) + 0.30 × ΔAWE (Ontario)

where

GDP-IPI (FDD) is the annual Implicit Price Index for (national) Gross Domestic Product.

AWE (Ontario) is the annual Average Weekly Earnings for Ontario, all businesses except unclassified, including overtime.

6

7 The OEB's inflation factor calculation uses component weights of 30% labour and 70% 8 non-labour. Hydro Ottawa proposes to use an inflation factor consistent with the OEB's 9 approach. However, the utility proposes to use a weighting of the two sub-indices that is more 10 suitable for Hydro Ottawa's historical labour/non-labour split. Hydro Ottawa maintains that a 11 weighting that is more closely aligned with its own labour/non-labour split is more appropriate 12 than the OEB's 70/30 split, as it represents the utility's actual conditions.

13

After an analysis of both historical and forecast operations, maintenance and administration ("OM&A") expenditure data over the 2016-2020 period, Hydro Ottawa has determined that a unique labour/non-labour weighting of 55.5% labour and 44.5% non-labour is appropriate. Table 3 below provides an overview of Hydro Ottawa's labour and non-labour OM&A components, as a percentage of total OM&A.

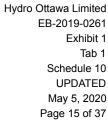
19 20

Table 3 – Hydro Ottawa's Labour/Non-Labour Split (2016-2020)

	2016	2017	2018	2019	2020	5-Year Total
Labour (55.5% weight)	\$72,126,923	\$71,938,869	\$75,204,872	\$75,788,503	\$77,366,800	\$372,425,968
Non-Labour (44.5% weight)	\$54,929,916	\$57,241,300	\$59,383,744	\$61,471,941	\$65,067,573	\$298,094,474
Labour as a % of Gross OM&A	56.77%	55.69%	55.88%	55.22%	54.32%	55.5% (average)

21

22 Hydro Ottawa thus proposes to calculate its inflation factor as follows:





Inflation Factor = $0.445 \times \triangle GDP$ -IPI (FDD) + $0.555 \times \triangle AWE$ (Ontario) 1 2 where GDP-IPI (FDD) is the annual Implicit Price Index for (national) Gross Domestic Product. 3 4 AWE (Ontario) is the annual Average Weekly Earnings for Ontario, all businesses except unclassified, including overtime. 5 6 7 Hydro Ottawa proposes to use a static inflation factor for the duration of this Application's term, 8 and therefore proposes to derive its inflation factor using an average based on historical and 9 forecast data over the 2017-2025 period. Annual GDP-IPI data and AWE historical and projection data for the 2017-2025 period from the Conference Board of Canada is presented in Tables 4 and 5 below, alongside Hydro Ottawa's adjusted labour/non-labour weighting. 16

Table 4 – 2017-2025 GDP-IPI (FDD) Index

Year	GDP-IPI	Hydro Ottawa Non-Labour Weighting	Adjusted GDP-IPI
2017	2.50%	44.46%	2.78%
2018	1.67%	44.46%	1.86%
2019	1.19%	44.46%	1.32%
2020	2.33%	44.46%	2.59%
2021	2.11%	44.46%	2.34%
2022	2.10%	44.46%	2.33%
2023	2.07%	44.46%	2.30%
2024	2.07%	44.46%	2.30%
2025	2.07%	44.46%	2.30%

Source: Conference Board of Canada

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¹⁶ Note that projection data for GDP-IPI and AWE is available up to 2023 only. Consistent with the inflation indices

¹⁷ used in Clearspring Energy Advisors' *Econometric Benchmarking Study of Hydro Ottawa's Total Cost and Reliability*

^{18 (}Attachment 1-1-12(A)), the 2023 inflation rate was applied to 2024 and 2025.



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Table 5 – 2017-2025 AWE (Ontario) Index

Year	AWE	Hydro Ottawa Labour Weighting	Adjusted AWE
2017	0.82%	55.54%	0.73%
2018	3.40%	55.54%	3.02%
2019	2.61%	55.54%	2.32%
2020	2.77%	55.54%	2.46%
2021	2.75%	55.54%	2.45%
2022	2.72%	55.54%	2.42%
2023	2.71%	55.54%	2.41%
2024	2.71%	55.54%	2.41%
2025	2.71%	55.54%	2.41%

Source: Conference Board of Canada

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Table 6 below presents an annual breakdown of Hydro Ottawa's adjusted weightings for both

GDP-IPI and AWE over the 2017-2025 period.

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Table 6 - Hydro Ottawa's Labour/Non-Labour Split (2017-2025)

Year	GDP-IPI (Non-Labour)	AWE (Labour)	Average
2017	2.78%	0.73%	1.75%
2018	1.86%	3.02%	2.44%
2019	1.32%	2.32%	1.82%
2020	2.59%	2.46%	2.53%
2021	2.34%	2.45%	2.39%
2022	2.33%	2.42%	2.38%
2023	2.30%	2.41%	2.35%
2024	2.30%	2.41%	2.35%
2025	2.30%	2.41%	2.35%
2017-2025 Average	2.23%	2.29%	2.26%



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- 1 As shown in Table 6 above, applying Hydro Ottawa's specific labour/non-labour weighting
- 2 factors to the AWE and GDP-IPI indices, and averaging over the 2017-2025 period, yields an
- 3 inflation factor of 2.26%. Hydro Ottawa does not intend to update the inflation factor over the
- course of its 2021-2025 rate term.

5

"X" Factor: Productivity and Stretch Factors 6 **4.3.2.**

7 **4.3.2.1. Productivity Factor**

- 8 There are two components to the X factor: an industry Total Factor Productivity ("TFP")
- 9 component and a stretch factor component. The productivity component is intended to be an
- 10 estimate of industry TFP growth in Ontario's electricity distribution sector. In its 2013 report,
- Productivity and Benchmarking Research in Support of Incentive Rate Setting in Ontario, PEG
- 12 defines TFP growth "as the change in total output quantity minus the change in total input
- 13 quantity."17 PEG's analysis yielded a TFP growth factor of -0.33%, and ultimately, PEG
- 14 recommended a zero TFP factor. 18 In turn, the OEB adopted PEG's recommendation. 19

15

- More recently, the OEB re-affirmed a zero TFP factor in the context of a Custom IR rate filing
- 17 from Hydro One Networks Inc. ("HONI"). During this proceeding, separate reports submitted by
- PEG and another independent third-party expert (Power System Engineering ["PSE"]) both
- recommended a TFP factor of 0.0%. Of note, PSE had updated Ontario industry TFP research
- to 2015 and concluded that TFP continues to decline. The OEB ultimately accepted a TFP of
- 21 0% in its Decision and Order.²⁰

22

- 23 Consistent with the RRFE Report²¹ and the foregoing OEB rulings, Hydro Ottawa proposes to
- 24 adopt the OEB's TFP factor of zero in its CPEF.

²⁵ Pacific Economics Group, *Productivity and Benchmarking Research in Support of Incentive Rate Setting in Ontario* 26 (November 2013), page 25.

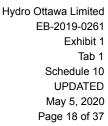
¹⁸ *Ibid*, pages 51-53.

²⁸ Ontario Energy Board, Report of the Board - Rate Setting Parameters and Benchmarking under the Renewed

²⁹ Regulatory Framework for Ontario's Electricity Distributors (November 21, 2013, corrected December 4, 2013), page

^{30 17.} 31 ²⁰ Ontario Energy Board, *Decision and Order*, EB-2017-0049 (March 7, 2019).

^{32 &}lt;sup>21</sup> RRFE Report, page 17.





1 4.3.2.2. Stretch Factor

2 The second component to the X factor is the stretch factor, which is intended to reflect the

3 incremental productivity gains that distributors are expected to achieve under Incentive

4 Regulation. The OEB has concluded that stretch factors play an important role in Incentive

5 Regulation and "promote, recognize and reward distributors for efficiency improvements relative

6 to the expected sector productivity trend."22

7

8 Under the current methodology, stretch factors are determined based on a distributor's assignment in one of five efficiency assessment rankings. Efficiency assessments are determined using a total cost econometric model developed by PEG, which is updated annually. The PEG model renders a comparison of each distributor's "actual" total costs relative to their predicted costs. Distributors are then placed into one of five cohorts and assigned a corresponding stretch factor based on the percentage difference between actual and predicted costs. Stretch factors range from 0.0% to 0.60%, with lower stretch factors indicating higher efficiency. Since 2015, Hydro Ottawa has been placed in Cohort 4 and assigned a stretch factor of 0.45% in accordance with the PEG model's finding that actual costs have been between 10%-25% above predicted costs.

18

While Hydro Ottawa acknowledges and accepts the value of total cost benchmarking as a measure of productivity and efficiency, as well as the merit of incorporating a productivity factor into its CPEF, the utility is concerned by some of the inherent limitations in the PEG model. These limitations have induced Hydro Ottawa to submit alternative total cost benchmarking analysis as part of this Application. More detailed rationale in support of the utility's approach is outlined in Attachment 1-1-12(E): PEG Benchmarking Forecast.

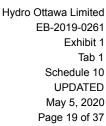
25

26 The total cost benchmarking study included in this Application as Attachment 1-1-12(A) is

27 econometric in nature, similar to the PEG model. The study has been prepared by Clearspring

_ _

²⁸ Ontario Energy Board, *Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for* Ontario's Electricity Distributors (November 21, 2013, corrected December 4, 2013), page 19.





Energy Advisors ("Clearspring"). Clearspring's analysis provides an appropriate and empirical basis for setting Hydro Ottawa's stretch factor. As noted in the report, Clearspring's total cost findings for Hydro Ottawa during the Custom IR period demonstrate a total cost benchmarking score of -7.1% below predicted costs, which corresponds to a stretch factor of 0.30%. However, when normalized for two once-in-a-generation expenditures, the value of this factor decreases to 0.15%, with a total cost benchmarking score of -12.5%. This normalization entails the removal of the expenditures and in-service additions for the Facilities Renewal Program ("FRP") and the Cambrian Municipal Transformer Station ("MTS"). These projects are described in Clearspring's report, as follows:

Facilities Renewal Program: The purpose of this program is to (a) consolidate operations and administrative staff; (b) move Hydro Ottawa's operational centers out of high-traffic residential areas to sites with easy access to major highways within the Ottawa area; (c) replace aging buildings; and (d) upgrade operational centers in order to provide better response to customers. Under the program, two parcels of land were purchased, upon which Hydro Ottawa has constructed two regional campuses – namely, the Eastern Operations and Administrative Campus, and the Southern Operations & Warehouse.

This program is a "once in a generation" modernization and operational efficiency initiative. Most of the capital additions for the FRP occur in 2019. This large investment worsens the total cost benchmarking scores throughout the entire Custom IR period.

• Cambrian MTS²³: This project consists of two key components: (1) a new municipal transformer station to be constructed by Hydro Ottawa; and (2) upgrades to existing transmission facilities, as well as construction of a segment of new transmission line by Hydro One. These facilities are required to accommodate customer load growth and increase supply capacity in the South Nepean area of Ottawa, which has already reached the limits of local transformation capacity.

The capital additions for the Cambrian MTS project occur in 2021 and 2022. Therefore, this large investment will worsen the total cost benchmarking scores beginning in 2021 and then throughout the Custom IR period.

The previous name for Cambrian MTS was South Nepean MTS. Clearspring's report retains the original
 nomenclature of South Nepean MTS.



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- 1 Projects of this nature do not occur on a regular basis. In the last decade, Hydro Ottawa built
- 2 only two new transformer stations, neither of which required a transmission investment level of
- 3 the magnitude of Cambrian MTS.24

4

- 5 As noted above, when Clearspring analyzed Hydro Ottawa's total costs in the absence of these
- 6 two projects, the stretch factor dropped to 0.15%:

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"The 2021 to 2025 average forecasted results show that if the FRP investment was excluded the score becomes -9.9%. This is just above the threshold to move the stretch factor recommendation from 0.3% to 0.15%. If both the FRP and the South Nepean MTS investments are excluded the total cost benchmarking score for 2021 to 2025 averages -12.5%. If these two investments were not forecasted, this would have pushed the stretch factor recommendation to 0.15%."25

13 14

15 These two projects represent approximately \$180M worth of expenditures incurred in a very short time period (2018-2022). Seeing as the FRP is not of a recurring nature, and a new MTS requiring a major transmission upgrade is a rare investment, it is Hydro Ottawa's position that these projects should be excluded for purposes of determining the utility's stretch factor.

19

"G" Factor: Growth Factor 20 4.3.3.

- Hydro Ottawa's CPEF will include a growth factor to account for the increased costs associated
- with its substantial and steady customer growth. The inclusion of a growth variable in the CPEF
- is warranted in order to capture the change in distribution revenue that would naturally occur (in
- 24 the absence of any rate changes) as a result of an increase in the number of customers over
- 25 the forecast period. The value of the growth factor is determined based upon Hydro Ottawa's
- 26 historical and forecast growth in customers for the period 2012-2020. As shown in Tables 7 and

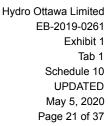
²⁷ The last two MTS projects to go into service were Ellwood MTS in 2012 and Terry Fox MTS in 2014. For more

²⁸ information on these projects, please see Exhibit B, Tab 7, Schedule 1 in the joint application filed by Hydro Ottawa

²⁹ and HONI in EB-2019-0077. This joint application sought Leave to Construct approval for the South

Nepean/Cambrian MTS and the corresponding transmission system upgrades and expansion.

Attachment 1-1-12(A): Econometric Benchmarking Study of Hydro Ottawa's Total Cost and Reliability, page 35.





- 1 8 below, customer growth in Ottawa has been substantial and consistent over that period,
- 2 averaging approximately 1.34% on an annual basis.

3 4

Table 7 – Hydro Ottawa Customer Count (2012-2020)

Rate Class	2012	2013	2014	2015	2016	2017	2018	2019	2020 ²⁶
Residential	282,187	287,191	291,759	296,036	299,909	303,571	307,053	311,464	315,887
Small Commercial	23,921	23,972	24,149	24,563	24,689	24,888	24,996	25,080	25,250
Commercial	3,415	3,548	3,617	3,310	3,271	3,305	3,260	3,216	3,189
Large User	11	11	11	10	11	13	11	11	11
TOTAL	309,534	314,722	319,536	323,919	327,880	331,777	335,320	339,771	344,325

5

6 7

Table 8 - Hydro Ottawa Customer Count (2012-2020): Total Change, Total Percentage Change, and Compound Annual Growth Rate ("CAGR")

Hydro Ottawa Customer Growth			
Total Change	34,791		
% Change	11.24%		
CAGR	1.34%		

8

9 According to data from Statistics Canada's 2011 census, the population in the City of Ottawa 10 increased by 8.8% since 2006, which is a faster growth rate than Ontario (5.7%) and Canada as 11 a whole (5.9%).²⁷ Moreover, the City's Official Plan predicts a population growth rate of 16%

12 between 2016 and 2031.28 With additional customers comes the requirement for associated

13 expenditures to serve those customers.

¹⁴ ²⁶ In this instance, the customer count for 2020 represents a forecast based on historical trends. This forecast was 15 developed internally at Hydro Ottawa and was utilized as an input in the preparation of the supporting evidence for

¹⁶ this Schedule prior to the completion of the load forecast which is appended to this Application as **UPDATED**

¹⁷ Attachment 3-1-1(C).
18 27 Statistics Canada, *Focus on Geography Series*, 2011 Census (2012). Statistics Canada Catalogue no.

^{19 98-310-}XWE2011004. Ottawa, Ontario. Analytical products, 2011 Census.

²⁰ City of Ottawa, Official Plan: Volume 1 (May 2003), page 2-3.



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1 Hydro Ottawa's load forecast anticipates modest growth in total energy sales and steady growth

2 in customer count over the 2021-2025 period.²⁹ While a load forecast generally reflects the

3 expected growth in a utility's customer base and energy sales, a growth factor is intended to

4 capture the relationship between the increasing number of customers and the costs to serve

5 them.

7 Hydro Ottawa's proposed approach with its CPEF is not without precedent in the context of

8 utility regulation in Canada. The use of a growth factor has been previously employed and

approved by regulators in Ontario, 30 Québec, 31 Alberta, 32 and British Columbia. 33

10

11 As an expert witness hired by the OEB in HONI's most recent Custom IR proceeding, PEG

12 noted the correlation between customer growth and operating costs as an important factor and

13 recommended that HONI include a customer growth factor in its custom index.³⁴

14

15 Similarly, in a report prepared for the Régie de l'énergie ("Régie") in Québec, PEG has affirmed

16 that "the number of customers served drives the costs of customer services (e.g. billing and

collection) and some distribution costs (e.g. those of metering and connections)...In econometric

research on distribution cost, the customers variable typically has the highest estimated cost

elasticity amongst the scale variables modelled."35 For its part, the Régie has previously

established that it will apply a scaling factor of 0.75 to Hydro Québec Distribution's ("Hydro

21 Québec") growth factor as part of Hydro Québec's mécanisme de réglementation incitative

²² See UPDATED Exhibit 3-1-1: Load Forecast.

²³ Ontario Energy Board, *Decision* (in the matter of a rate application filed by Enbridge Gas Distribution),

²⁴ EB-2007-0615.
25 31 Régie de l'énergie, *Décision*, D-2017-043 (April 7, 2017). This decision was in the matter of the establishment of a 26 regulatory incentive mechanism to ensure efficiency gains by Hydro-Québec Distribution and Hydro-Québec

TransÉnergie.

TransÉnergie.

Alberta Utilities Commission, *Decision*, 20414-D01-2016 (Errata), (2018-2022 Performance-Based Regulation

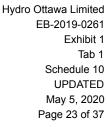
²⁹ Plans for Alberta Electric and Gas Distribution Utilities).

³⁰ British Columbia Utilities Commission, *Decision and Orders*, G-138-14 and G-139-14 (Performance Based

Ratemaking Plans for 2014 through 2019 for FortisBC Energy Inc. and FortisBC Inc.).

32 34 EB-2017-0049: Pacific Economics Group, *IRM Design for Hydro One Networks, Inc.*, (April 13, 2018), page 48.

³³ Pacific Economics Group, *X Factor Calibration Guidelines for Hydro-Québec Distribution* (May 12, 2019), page 7.



HydroOttawa

("MRI").36

2

3 In addition, since the mid-1990s, electric utility FortisBC Inc. ("FortisBC") has generally used an Average Customer Growth Factor ("ACGF") in its approach to operations and maintenance 5 ("O&M") escalation.³⁷ As approved by the British Columbia Utilities Commission ("BCUC") in 6 Order G-139-14 dated September 15, 2014, 38 FortisBC's current rate plan includes a growth 7 factor of 50% of the ratio of the average number of customers ("AC") one year previous to the 8 average number of customers two years previous, expressed as:

10
$$ACGF = [1 + ((ACt-1 - ACt-2) / ACt-2) \times P\%)]$$

11 where

12 $ACT-1 = customer count at time minus 1$

13 $ACT-2 = customer count at time minus 2$

14 $P = percentage/scaling factor$

15

16 Hydro Ottawa proposes to employ a scaling factor of 0.35 to determine its growth factor, 17 consistent with the approved approaches for FortisBC and Hydro Québec. The selection of this scaling factor was made by considering the scaling factors used in other jurisdictions and taking into account the substantial growth in population and customers in the Ottawa area.

20

Using a scaling factor of 0.35 would render a growth factor in the range of 0.39% and 0.43%, depending on the specific historical years chosen for analysis. For example, using the percentage change in customer count between 2017-2018 and plugging it into the ACGF 24 formula described above would result in a growth rate of 0.39%, as follows:

25

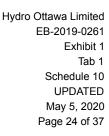
²⁶ "Mécanisme de réglementation incitative" roughly translates into English as "incentive regulation mechanism."

²⁷ FortisBC Inc.'s 1996-2004, 2005-2006, 2007-2011 and 2014-2019 rate plans were approved performance-based

²⁸ rate plans that employed formula based O&M escalation factors based on an I-X index multiplied by the average

 ²⁹ percentage growth of average number of customers.
 30 38 G-139-14: British Columbia Utilities Commission, *Decision and Order, In the Matter of FortisBC Inc. Multi-Year*

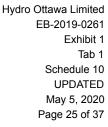
³¹ Performance Based Ratemaking Plan for 2014 through 2018 Decision, (September 15, 2014), page 116.





ACGF = [1 + ((333,621 - 329,926) / 329,926) *0.35]1 2 ACGF = 0.392%3 Similarly, use of the percentage change in customer count between 2016-2017 would yield a 5 growth rate of 0.43%: ACGF = [1 + ((329,926 - 325,913) / 325,913) * 0.35]7 ACGF = 0.431% 8 9 10 Unlike FortisBC, which updates its growth factor annually, Hydro Ottawa does not intend to 11 update the growth factor throughout the term of this Application. 12 13 Based on the foregoing discussion, and in particular, Hydro Ottawa's consistent customer 14 growth rate since 2012, Hydro Ottawa proposes to employ a conservative growth rate near the 15 lower end of the calculated range of 0.40% in its CPEF. This growth rate would remain 16 unchanged over the course of the 2021-2025 period. 17 **Summary – Custom Price Escalation Factor** 18 **4.3.4.** 19 Hydro Ottawa proposes to apply a CPEF to its OM&A over the term of this Application. Similar 20 to the escalation formula approved by the OEB in the utility's last Custom IR application,³⁹ Hydro 21 Ottawa's CPEF consists of three variables:

39 Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application, EB-2015-0004
 (April 29, 2015).





CPEF = I - X + G1 2 where "I" is Hydro Ottawa's custom Inflation Factor (2.26%) 3 4 "X" is a two-component productivity factor consisting of the OEB's Total Factor Productivity + 5 Hydro Ottawa's custom Stretch Factor (0.0% +0.15%) 6 7 "G" is Hydro Ottawa's customer Growth Factor (0.40%) 8 9 = 2.26% - 0.15% + 0.40% 10 = 2.51% 11

The result of Hydro Ottawa's CPEF is an escalation of 2.51% per year for years two through five of the 2021-2025 Custom IR term. Year one of the Application term is a traditional rebasing year, with rates set on the basis of a forecast Test Year of \$93.9M. Thereafter, each year will be adjusted by the CPEF (2.51%), as shown in Table 9.

17 18

12

Table 9 – 2021 to 2025 Annual OM&A Expenditures (\$'000s)

Year	OM&A	Previous Year	Variance	Variance/ CPEF
2021	\$93,923	N/A	N/A	N/A
2022	\$96,280	\$93,923	\$2,357	2.51%
2023	\$98,697	\$96,280	\$2,417	2.51%
2024	\$101,174	\$98,697	\$2,477	2.51%
2025	\$103,714	\$101,174	\$2,539	2.51%

19

This formulaic adjustment is consistent with the OEB's policy framework under the RRF, where rates charged to customers are de-linked from the costs of operating the utility. The CPEF conforms to OEB guidance for the Index for Annual Rate Adjustment under the Custom IR method (as laid out in the *Handbook for Utility Rate Applications*), as it accomplishes all of the



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1 following:

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- It is based on a custom index supported by empirical evidence that can be tested;
- Explicit financial incentives for continuous improvement and cost control targets are
 included in this Application and incorporated through the CPEF;
 - The CPEF does not adopt the stretch factor that the OEB has established for electricity incentive regulation mechanism applications;
 - The CPEF is higher than the OEB approved index (I-X) used for electricity distributors under Price Cap IR; and
 - The application of the CPEF resulted in a reduction of OM&A spending over the 2021-2025 period of \$13.1M. These savings will be achieved, in part, through productivity gains as described in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives.

1314

15 4.4. EARNINGS SHARING MECHANISM

The OEB has clarified that electricity distributors which are filing Custom IR applications are expected to propose one or more mechanisms to protect customers from excessive utility earnings.⁴⁰ In this Application, Hydro Ottawa proposes to include two such mechanisms.

19

- The first is an earnings sharing mechanism ("ESM"). ESMs permit the sharing of utility earnings with customers when earnings rise above or fall below a certain threshold. Under an ESM,
- 22 earnings may be passed along to customers in the form of rate reductions or rate offsets.

23

- 24 Hydro Ottawa is proposing an asymmetrical ESM such that the utility would only share earnings
- 25 that exceed a basis point threshold above the utility's return on equity ("ROE"), with no
- 26 corresponding adjustment if its earnings fall below the basis point threshold.

27

28 The proposed ESM formula is as follows:

²⁹ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 27.





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1

Table 10 - Proposed ESM Formula

#	Threshold	Treatment
1	Under earning	Borne entirely by shareholder
2	0-150 basis points	Fully retained by shareholder
3	Above 150 basis points	50:50 sharing of ratepayer/shareholder

2

3 Additional detail on the proposed ESM is set forth in Exhibit 9-2-1: New Deferral and Variance

4 Accounts.

5

6 **4.5**. **OFF-RAMP(S)**

7 The second mechanism which Hydro Ottawa proposes to include as a means of protecting

8 customers against excessive utility earnings is an off-ramp. Similar to its 2016-2020 Custom IR

9 application, this Application proposes to apply the OEB's existing policy with respect to

10 off-ramps, wherein a regulatory review may be initiated in the event that an electricity distributor

11 performs outside of an annual ROE dead band of plus or minus 300 basis points.

12

13 **4.6. Z FACTOR(S)**

In its *Handbook for Utility Rate Applications*, the OEB affirmed its policy that "[a]n acceptable adjustment during a Custom IR term is a Z factor mechanism for cost recovery of unforeseen events." In step with this guideline, Hydro Ottawa intends to reserve its right over the course of

7 the 2021-2025 rate term to file a Z factor application in order to recover costs resulting from

8 unforeseen events, decisions, or activities, the results of which cannot be reasonably

19 anticipated or quantified at this juncture and where the costs exceed Hydro Ottawa's materiality

0 threshold. Examples include unforeseen weather events or changes to laws or regulations

21 which would require significant investment to implement.

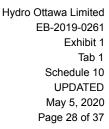
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23 Please see Exhibit 9-2-1: New Deferral and Variance Accounts for additional information on Z

24 factors.

_ _

²⁵ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 27.





1 4.7. CAPITAL VARIANCE ACCOUNT

In this Application, Hydro Ottawa proposes to sustain the use of a variance account wherein it will track, on an annual basis, variances in the cumulative revenue requirement arising from variances in the forecasts for the four key categories of capital spending: System Access, System Service and System Renewal, and General Plant.⁴² The creation and use of such a variance account was sanctioned as part of the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rates. The utility believes that the administration of this capital variance account on an ongoing basis is an effective means of ensuring transparency and accountability in the planning, execution, and reporting of annual capital expenditures. Accordingly, it is proposed to remain in effect for the 2021-2025 period, and to retain the general design of the account that has been utilized during the 2016-2020 rate term, namely:

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- Variances will be calculated by reference to the current forecast for each of the four categories in each year;
- Variances and associated revenue requirement impacts will be calculated and tracked on an annual basis;
- In each year of the 2021-2025 Custom IR plan, if Hydro Ottawa adds to rate base less
 than its forecast cumulative amount in any of the four categories, the corresponding
 reduction in revenue requirement will be credited to the variance account and any
 cumulative reduction in revenue requirement in any of the four categories will be
 disposed of at the end of the term of the Custom IR plan;
- Each year, Hydro Ottawa will estimate the impact of the revenue requirement resulting from the variance in its cumulative capital additions for each of the four capital additions budgets;
- Disposition of any underspending in the four categories, on a cumulative basis, will be at the conclusion of the five-year Custom IR term; and

²⁷ For its 2016-2020 Custom IR rate plan, Hydro Ottawa was granted approval to merge System Renewal and

²⁸ System Service into one category for purposes of this variance account and annual reporting. This approach reflected

²⁹ Hydro Ottawa's standard operating practice to shift funds between the two categories, as warranted by customer and

³⁰ operational requirements. Hydro Ottawa is planning to maintain this approach during the 2021-2025 rate term, with

³¹ some modifications, as explained in further detail below.



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• If, at the end of the five-year Custom IR plan, there has been overspending in any category, there will be no charge to the customer.

2

1

4 One important modification to the capital variance account that Hydro Ottawa is proposing to introduce for 2021-2025 is the use of a separate sub-account for System Access capital expenditures. The rationale for this proposal is that capital spending in this category is driven by customer requests and is therefore difficult to predict, as the level of required expenditure is outside of Hydro Ottawa's control.

9

By proposing the calculation of the annual variance on a cumulative basis, Hydro Ottawa's intent is to ensure that if projects are delayed, but are completed as planned at a later time, then the reduction to revenue requirement will only reflect the period of delay and will cease when the projects have been added to rate base.

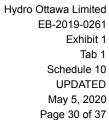
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15 For additional information on the capital variance account, please see Exhibit 9-2-1: New 16 Deferral and Variance Accounts.

17

18 4.8. CCRA PAYMENTS DEFERRAL ACCOUNT

Similar to the Capital Variance Account discussed above, Hydro Ottawa proposes to continue the use of a variance account to record the revenue requirement impact of Connection Cost Recovery Agreement ("CCRA") payments made to HONI commencing in the year in which the facilities to which each CCRA payment relates provides services to Hydro Ottawa customers. In step with the administration of this account over the 2016-2020 rate term, for the 2021-2025 Custom IR plan Hydro Ottawa intends to record depreciation, interest, return, and payment in lieu of taxes components of revenue requirement impact as CCRA-related assets are put into service. The balance will be disposed as part of the Group 2 Accounts and according to the OEB's direction regarding the disposition of Group 2 Accounts.





1 It is Hydro Ottawa's intent to utilize this account for purposes of new CCRA payments and for

2 true-ups.

3

For additional information, please see Exhibit 9-2-1: New Deferral and Variance Accounts.

5

6 5. PERFORMANCE MEASUREMENT

7 As described by the OEB, the RRF is fundamentally a "comprehensive performance-based approach to regulation that promotes the achievement of performance outcomes that will benefit

9 existing and future customers."43 The RRF's four categories of performance outcomes -

10 Customer Focus, Operational Effectiveness, Public Policy Responsiveness, and Financial

11 Performance – serve as the lodestar for the framework and the focal point towards which the

2 other core components gravitate and culminate. Accordingly, another key component in the

3 OEB's basket of RRF implementation policies is measuring utilities' performance and setting

14 expectations for continuous improvement in the delivery of services and benefits to customers.

15

16 This Application includes several features that comport with the RRF's emphasis on performance measurement, monitoring, and reporting.

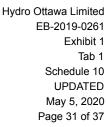
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9 5.1. CUSTOM PERFORMANCE SCORECARD

As detailed above, Hydro Ottawa embedded a robust framework for performance measurement into its 2016-2020 rate plan. This framework represented a blend of OEB performance measures that were – and continue to be – standardized in their application to all rate-regulated distributors (i.e. through the Electricity Utility Scorecard), along with a series of unique KPIs and reporting measures that were customized in their application to Hydro Ottawa. Pursuant to the RRFE Report and the Approved Settlement Agreement governing the utility's 2016-2020 rate term, Hydro Ottawa committed to an annual cycle of reporting on these KPIs, as well as on capital expenditures in each of the four principal categories of spending (System Access, System Renewal and System Service, and General Plant).

. .

²⁹ ⁴³ RRFE Report, page 55.





1 In 2016, the OEB formally clarified its expectation that the annual Electricity Utility Scorecard

2 cannot constitute, on its own, an electricity distributor's performance measurement framework.

3 The Handbook for Utility Rate Applications confirmed that, while the OEB had already

established a standardized scorecard for all distributors, "additional performance metrics should

also be proposed so that expected outcomes can be monitored."44

6

7 For the 2021-2025 rate period, Hydro Ottawa is therefore proposing an extension and expansion of its previous framework for performance measurement and reporting. This subsequent iteration of the framework will build upon the success of the preceding one and maintain the approach of combining standard OEB performance measures with ones that are customized for Hydro Ottawa's unique use. What's more, the framework will incorporate customized enhancements that seek to implement lessons learned and findings from the prior rate plan, to strengthen the linkages between customer priorities and Hydro Ottawa's programs, and to incorporate key results from the benchmarking performed by the utility to compare its performance against that of its peers. Through this framework and Hydro Ottawa's use of a Custom Performance Scorecard, the OEB, customers, and other stakeholders will be equipped with quantitative tools with which to effectively measure the utility's performance in achieving customer-focused outcomes.

19

For a more detailed description of the proposed performance measurement framework, and the accompanying reporting plan, please see Exhibit 1-1-11: Proposed Annual Reporting -2021-2025. 22

23

24 **5.2.** BENCHMARKING

- 25 A key tool in the RRF performance measurement toolkit is benchmarking. In its original RRFE
- 26 Report, the OEB found that "[e]xpanded use of benchmarking will be necessary to support the
- 27 Board's renewed regulatory framework policies."45 This finding is affirmed in the Handbook for

²⁸ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 26.

²⁹ ⁴⁵ RRFE Report, page 59.

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1 *Utility Rate Applications*, which conveys the OEB's expectation for utilities "to provide 2 benchmarking analysis which supports their proposed plans and programs and demonstrates 3 continuous improvement."⁴⁶

4

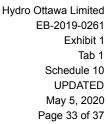
This Application includes several pieces of benchmarking evidence, which are intended to serve multiple purposes. First and foremost, the inclusion of benchmarking information will assist the OEB in evaluating Hydro Ottawa's patterns of performance and in assessing the proposals set forth in the utility's capital and operational plans. Second, the benchmarking that has either been conducted or commissioned by Hydro Ottawa has helped inform the establishment and incorporation of specific outcomes into the performance measurement framework for the 2021-2025 rate period. It has also influenced the development of the Custom Price Escalation Factor, which is a defining feature of the Custom IR rate-setting framework underpinning this Application (see section 4.3 in this Schedule). Third, the use of such studies and analyses is directed at supporting the achievement of the utility's own corporate strategic objective of Organizational Effectiveness, which is interpreted as the pursuit of performance excellence through the cultivation of a culture of innovation and continuous improvement. Together, these functions will help ensure that Hydro Ottawa remains accountable to the OEB, its customers, and other stakeholders with respect to providing value for money and cost-effective delivery of outcomes.

20

Consistent with OEB requirements, the benchmarking evidence appended to this Application takes two forms – internal and external. The internal benchmarking primarily relies upon metrics utilized in the annual Electricity Utility Scorecard, the OEB's annual *Yearbook of Electricity Distributors*, and annual PEG Benchmarking Updates to assess Hydro Ottawa's performance and continuous improvement over time. The external benchmarking consists of analysis conducted by Hydro Ottawa, in which the utility's performance is juxtaposed against that of a select subset of the electricity distributor community in Ontario. It also consists of a series of reports commissioned from third-parties, for the purpose of analyzing the utility's performance in

_

²⁹ ⁴⁶ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 18.





a range of categories and measures relative to a comparator group of utilities located either in
 Ontario, Canada, and/or the United States. These reports are as follows:

3

5

6 7

- "Econometric Benchmarking Study of Hydro Ottawa's Total Cost and Reliability" –
 Clearspring Energy Advisors
- "Unit Costs Benchmarking Study" UMS Group
 - "IT Budget Assessment Benchmark" Gartner Consulting
 - "2019 Market Benchmarking" Mercer Canada

9

8

These benchmarking analyses have yielded important insights into Hydro Ottawa's performance and efficiency over the last several years, and into the costs of key programs relative to the utility's peers. In varying measures, the results from these studies have been reflected in different aspects of this Application, whether serving to validate certain proposals and plans or prompting modifications to others, such that the ongoing achievement of efficiencies can be ensured over the course of the 2021-2025 rate period.

16

17 For further details, please see Exhibit 1-1-12: Benchmarking.

18

9 5.3. PRODUCTIVITY & CONTINUOUS IMPROVEMENT

20 Productivity and continuous improvement feature prominently in the architecture of the OEB's 21 performance-based approach to utility regulation. The *Handbook for Utility Rate Applications*, for 22 example, states that "a key objective of incentive regulation is to drive productivity 23 improvements within the utilities." Moreover, these themes are embedded in the OEB's 24 description of the second performance outcome category underpinning the RRF, Operational 25 Effectiveness: "continuous improvement in productivity and cost performance is achieved; and 26 utilities deliver on system reliability and quality objectives." What's more, the various 27 rate-setting methods that are made available under the RRF apply a productivity factor to

.

²⁸ Ontario Energy Board, *Handbook for Utility Rate Applications*, page 27.

²⁹ ⁴⁸ RRFE Report, page 2.



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1 electricity distributors which is derived from industry productivity trends determined by the OEB.

2 These productivity factors are entrenched in the rate adjustment mechanisms governing utility

proposals and reflect the OEB's expectation that standard business practice for distributors will

4 involve the achievement of incremental productivity gains.

5

Responsibly controlling costs and focusing on cost-effective delivery of outcomes that matter to customers remain core priorities for Hydro Ottawa. Amidst the unique confluence of demands, pressures, and constraints on operations, the utility is placing increased emphasis on incorporating productivity and continuous improvement gains, so as to offset increasing expenditures and boost organizational capacity. Hydro Ottawa is therefore committed to ensuring that productivity and continuous improvement serve as hallmarks of its 2021-2025 rate

1213

plan.

A retrospective glance at the outcomes and efficiencies derived from productivity initiatives during the preceding five-year rate period demonstrates that there is a firm foundation upon which to build. During the 2016-2020 period, Hydro Ottawa successfully executed a wide spectrum of initiatives which resulted in tangible savings to customers – and at no expense to service quality or system reliability.

19

Hydro Ottawa is set to continue strengthening its culture of continuous improvement over the course of its next five-year rate term – whether through harnessing the potential of new technologies and solutions to better serve customers, elevating standards of business performance and excellence, or rationalizing and re-purposing resources.

24

Of note, there are particular controls that Hydro Ottawa has adopted to provide the OEB, customers, and other stakeholders with robust assurance that productivity, cost control, and continuous improvement objectives have been firmly integrated into the utility's business planning process, and the resultant capital and operational plans, for the 2021-2025 rate period. Foremost among these is the design of the Custom IR rate-setting framework that serves as the



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1 basis of this Application. As discussed above, the Custom Price Escalation Factor will embed 2 productivity savings for customers by capping any increases to operational funding at 3 approximately the rate of inflation. Similarly, in preparing their plans and budgets for the 4 five-year rate term, each administrative division within the utility was mandated to demonstrate productivity savings in a quantitative and/or qualitative fashion and to identify initiatives 6 dedicated to continuous improvement. 49 Moreover, Hydro Ottawa will continue to administer a 7 performance management framework that ensures accountability in the monitoring and 8 reporting of corporate productivity against a defined set of targets and metrics.

9

Along with other measures, the aforementioned internal controls can provide confidence that Hydro Ottawa is well-positioned to continue strengthening its culture of continuous improvement 12 and producing significant savings for customers over the course of its next rate period.

13

A more detailed examination of Hydro Ottawa's productivity record and culture is included in 15 Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives. This examination is both retrospective and prospective in nature – i.e. surveying the productivity accomplishments of the 2016-2020 rate period as well as identifying the productivity efforts that are planned for 2021-2025. 18

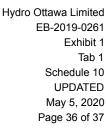
19

6. DISTRIBUTION SYSTEM PLANNING 20

Alongside the availability of various rate-setting options and expectations for performance measurement, the third and final policy that the OEB has adopted to help facilitate achievement of RRF performance outcomes is the requirement for utilities to engage in long-term planning. The RRFE Report affirms that "[a]n integrated approach to planning will provide a foundation for 25 the setting of distribution rates and lead to optimized investments that support the achievement

²⁶ Please see Attachment 1-1-9(A): Corporate Memorandum - 2020-2025 Priorities and Budget Guidelines. This

²⁷ memorandum was issued by Hydro Ottawa's Chief Financial Officer to members of the executive team in January





1 of the outcomes identified by the Board."50 Through the RRF, the OEB has established a firm 2 expectation for distributors to file five-year capital plans to support their rate applications.

3

4 In step with RRF requirements, Hydro Ottawa has formulated a consolidated Distribution System Plan ("DSP"), which provides a detailed and comprehensive view of the utility's investment plans and supporting information for the 2021-2025 period. The DSP is a core 7 deliverable emerging from multiple internal and external planning processes related to capital investment, asset management, regional planning, customer engagement, and business strategy. Hydro Ottawa's DSP details the planning process used to identify the risks and opportunities in the systems of assets and translate them into an expenditure plan. In addition, the DSP outlines how capital investments will be prioritized, paced, and optimized, while minimizing rate impacts for customers and facilitating continuous improvement and productivity. The DSP serves as a continuation of Hydro Ottawa's 2016-2020 plan, which focused on the enhancement of system capacity to keep pace with growth and shifts in loads within the service 15 territory, and on the renewal of aged and aging infrastructure at risk of failure.

16

In preparing the DSP, Hydro Ottawa was guided by the needs and preferences expressed by its customers: (i) keeping distribution rates low; (ii) maintaining reliability; and (iii) investing in new technology. Consultations with customers revealed strong support for making proactive investments in aging infrastructure and grid modernization, with the understanding that this may lead to near-term costs but will result in future savings. What's more, customers confirmed that they place considerable value on accelerated restoration times following extreme weather events and on a reduction in the number and frequency of outages.

24

25 The DSP represents the minimum level of investment needed to achieve a balance between 26 pressures on the distribution system and the top priorities of customers – all while avoiding the 27 accumulation of risk and declines in performance over the long-term.

^{28 50} RRFE Report, page 31.



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1 To view the DSP in full, please see Exhibit 2-4-3.



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UPDATED AUDITED FINANCIAL STATEMENTS

2

1

3 Appended to this Schedule are the following copies of audited financial statements for Hydro

4 Ottawa:

5

7

8

Attachment 1-3-1(A): 2017 Audited Financial Statements¹

• Attachment 1-3-1(B): 2018 Audited Financial Statements

Attachment 1-3-1(C): 2019 Audited Financial Statements

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

 $^{^{9}\,\,}$ 1 This Attachment includes 2016 comparatives.

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Hydro Ottawa Limited

Financial Statements

December 31, 2019

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Report of Management

Management is responsible for the integrity of the financial data reported by Hydro Ottawa Limited ['the Company']. Fulfilling this responsibility requires the preparation and presentation of financial statements and other data using management's best judgment, estimates and International Financial Reporting Standards as issued by the International Accounting Standards Board.

Management maintains appropriate systems of internal control and corporate-wide policies and procedures, which provide reasonable assurance that the Company's assets are safeguarded and that financial records are relevant and reliable.

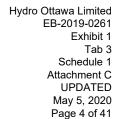
The Board of Directors of the Company, with the advice of the Audit Committee of Hydro Ottawa Holding Inc., ensures that management fulfills its responsibility for financial reporting and internal control. At regular meetings, the Audit Committee, including the Chair of the Board of Directors of the Company, reviews internal controls and financial reporting matters with management for Hydro Ottawa Holding Inc. and its subsidiaries. The Chair of the Board of Directors of the Company, as well as the Chief Executive Officer and the Chief Financial Officer, advise the Board of Directors of the Company of any matters of concern raised by the Audit Committee in reviewing the financial affairs of the Company.

On behalf of Management,

Bryce Conrad

President and Chief Executive Officer

Geoff Simpson
Chief Financial Officer





KPMG LLP 150 Elgin Street, Suite 1800 Ottawa ON K2P 2P8 Canada Telephone 613-212-5764 Fax 613-212-2896

INDEPENDENT AUDITORS' REPORT

To the Shareholder of Hydro Ottawa Limited

Opinion

We have audited the financial statements of Hydro Ottawa Limited (the "Entity"), which comprise:

- the balance sheet as at December 31, 2019
- · the statement of income for the year then ended
- the statement of comprehensive income for the year then ended
- the statement of changes in equity for the year then ended
- the statement of cash flows for the year then ended
- and notes to the financial statements, including a summary of significant accounting policies

(Hereinafter referred to as the "financial statements").

In our opinion, the accompanying financial statements, present fairly, in all material respects, the financial position of the Entity as at December 31, 2019, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards (IFRS).

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the "Auditors' Responsibilities for the Audit of the Financial Statements" section of our auditors' report.

We are independent of the Entity in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada and we have fulfilled our other ethical responsibilities in accordance with these requirements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

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Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with International Financial Reporting Standards (IFRS), and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Entity's ability to continue as a going concern, disclosing as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Entity or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Entity's financial reporting process.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion.

Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists.

Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit.

We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion.
 - The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Entity's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.

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- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Entity's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Entity to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Communicate with those charged with governance regarding, among other
 matters, the planned scope and timing of the audit and significant audit findings,
 including any significant deficiencies in internal control that we identify during our
 audit.

Chartered Professional Accountants, Licensed Public Accountants

Ottawa, Canada

KPMG LLP

April 16, 2020

Hydro Ottawa Limited

Statement of Income Year ended December 31, 2019 [in thousands of Canadian dollars] Hydro Ottawa Limited EB-2019-0261 Exhibit 1 Tab 3 Schedule 1 Attachment C UPDATED May 5, 2020 Page 7 of 41

	2019	2018
	\$	\$
Revenue and other income		
Power recovery revenue [Note 18]	904,030	857,383
Distribution revenue [Note 18]	184,215	181,050
Conservation and demand management income	13,018	24,865
Other revenue [Note 18]	25,992	22,112
	1,127,255	1,085,410
Expenses		
Purchased power	910,152	864,442
Operating costs [Note 19]	111,590	115,768
Depreciation [Notes 7 and 9]	45,669	40,148
Amortization [Note 8]	6,835	9,508
	1,074,246	1,029,866
Income before the undernoted items	53,009	55,544
Financing costs [Note 20]	22,203	19,759
Income before income taxes	30,806	35,785
Income tax expense [Note 21]	14,113	13,318
Net income	16,693	22,467
Net movements in regulatory balances, net of tax [Note 6]	21,007	14,692
Net income after net movements in regulatory balances	37,700	37,159

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Hydro Ottawa Limited

Statement of Comprehensive Income Year ended December 31, 2019 [in thousands of Canadian dollars]

> 2019 2018

	\$	\$
Net income after net movements in regulatory balances	37,700	37,159
Other comprehensive income		
Items that will not be subsequently reclassified to net income		
Actuarial (loss) gain on post-employments benefits, net of tax	(973)	674
Net movement in regulatory balances related to other comprehensive income, net of tax	973	(674)
Total comprehensive income	37,700	37,159

Hydro Ottawa Limited

Balance Sheet As at December 31, 2019 [in thousands of Canadian dollars] Hydro Ottawa Limited
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2019
2018

	2019	2010
	\$	\$
Assets		
Current assets Accounts receivable [Note 5]	179,690	162,814
Accounts receivable [Note 5] Income taxes receivable	1,893	102,614
Prepaid expenses	5,665	3,928
	<u> </u>	-
	187,248	166,742
Non-current assets Property, plant and equipment [Note 7]	1,182,649	1,112,259
Intangible assets [Note 8]	71,722	66,174
Investment properties [Note 9]	2,259	2,338
Total assets	1,443,878	1,347,513
Regulatory balances [Note 6]	58,669	34,667
Total assets and regulatory balances	1,502,547	1,382,180
Liabilities and shareholder's equity		
Current liabilities		
Bank indebtedness [Note 10]	26,323	27,673
Accounts payable and accrued liabilities [Note 11]	155,068	147,854
Income taxes payable	-	842
Advances from parent [Note 10]	-	47,000
	181,391	223,369
Non-current liabilities	442.497	115 760
Deferred revenue [Note 12]	142,187	115,769 12,367
Employee future benefits [Note 13(b)]	14,404	
Customer deposits	26,888 697,185	26,503 597,185
Notes payable [Note 14]	·	25,806
Deferred income tax liability [Note 21] Other liabilities	38,059 401	25,600
Total liabilities	1,100,515	1,001,570
Shareholder's equity		
Share capital [Note 16]	167,081	167,081
Retained earnings	213,237	193,837
Total liabilities and shareholder's equity	1,480,833	1,362,488
Regulatory balances [Note 6]	21,714	19,692
Total liabilities, shareholder's equity and regulatory balances	1,502,547	1,382,180

Contingent liabilities, commitments and subsequent event [Notes 23, 24 and 27]

On behalf of the Board:

Director

Director

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Hydro Ottawa Limited

Statement of Changes in Equity Year ended December 31, 2019 [in thousands of Canadian dollars]

	Accumulated other comprehensive		Retained	
	Share capital	income	earnings	Total
	\$	\$	\$	\$
Balance at December 31, 2017 Net income after net movements in regulatory balances Dividends [Note 16]	167,081	-	168,578	335,659
	-	-	37,159	37,159
	-	-	(11,900)	(11,900)
Balance at December 31, 2018 Net income after net movements in regulatory balances Dividends [Note 16]	167,081	-	193,837	360,918
	-	-	37,700	37,700
	-	-	(18,300)	(18,300)
Balance at December 31, 2019	167,081	-	213,237	380,318

Statement of Cash Flows Year ended December 31, 2019 [in thousands of Canadian dollars] Hydro Ottawa Limited EB-2019-0261 Exhibit 1 Tab 3 Schedule 1 Attachment C UPDATED May 5, 2020 Page 11 of 41

	2019	2018
	\$	\$
Net inflow (outflow) of cash related to the following activities:		
Operating		
Net income after net movements in regulatory balances	37,700	37,159
Adjustments for:		
Depreciation	45,669	40,148
Amortization	6,835	9,508
Loss (gain) on disposal of capital assets [Notes 7 and 8]	35	(256)
Amortization of deferred revenue [Note 18]	(3,767)	(2,950)
Employee future benefits	515	87
Financing costs	22,203	19,759
Income tax expense	14,113	13,318
Other	(236)	(105)
Capital contributions from customers	16,540	12,428
Capital contributions from developers	13,645	10,908
Net change in non-cash working capital and other operating balances [Note 22]	(3,823)	880
Change in customer deposits	(773)	13,751
Financing costs paid	(24,790)	(21,823)
Income tax refunded	1,203	142
Income tax paid	(5,012)	(4,000)
Net movements in regulatory balances	(21,007)	(14,692)
	99,050	114,262
	,	,
Investing		
Acquisition of property, plant and equipment	(142,376)	(191,959)
Acquisition of intangible assets	(7,584)	(3,393)
Proceeds from disposal of property, plant and equipment, net of disposition costs	17,560	573
	(132,400)	(194,779)
Financing		
Issuance of notes payable	100,000	30,000
Dividends paid [Note 16]	(18,300)	(11,900)
(Repayment of) proceeds from advances from parent	(47,000)	47,000
	34,700	65,100
Net change in cash	1,350	(15,417)
Bank indebtedness, beginning of year	(27,673)	(12,256)
Bank indebtedness, end of year	(26,323)	(27,673)
	(==,===)	(, 0)

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars] Hydro Ottawa Limited
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1. DESCRIPTION OF BUSINESS AND CORPORATE INFORMATION

Hydro Ottawa Limited [the 'Company'] was incorporated on October 3, 2000 pursuant to the *Business Corporations Act* (Ontario) as mandated by the Ontario government's *Electricity Act, 1998.* The Company is a wholly owned subsidiary of Hydro Ottawa Holding Inc., which in turn is wholly owned by the City of Ottawa. The Company is incorporated and domiciled in Canada with the registered head office located at 2711 Hunt Club Road, Ottawa, Ontario, K1G 4G2.

Hydro Ottawa Limited is a regulated electricity distribution company that owns and operates electricity infrastructure in the City of Ottawa and the Village of Casselman and is responsible for the safe, reliable delivery of electricity to homes and businesses in its licensed service area. In addition to billing for distribution services, Hydro Ottawa Limited invoices customers for amounts it is required to pay to other organizations in Ontario's electricity system for providing wholesale generation and transmission services.

2. BASIS OF PRESENTATION

(a) Statement of compliance

These financial statements have been prepared by management on a going-concern basis in accordance with International Financial Reporting Standards ['IFRS'], and have been approved and authorized by the Company's Board of Directors for issue on April 16, 2020.

(b) Basis of measurement

The Company's financial statements are prepared on a historical cost basis, except for the valuation of other employee future benefits as disclosed in Note 3(k)(ii).

(c) Functional and presentation currency

These financial statements are presented in Canadian dollars, which is the Company's functional currency.

(d) Use of estimates and judgments

The preparation of financial statements in conformity with IFRS requires management to make estimates, judgments and assumptions that affect the reported amounts of revenue, expenses, assets, liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements.

Due to the inherent uncertainty involved in making such estimates, actual results could differ from estimates recorded in preparing these financial statements, including changes as a result of future decisions made by the Ontario Energy Board ['OEB'] or the Ontario provincial government. Management reviews its estimates and judgments on an ongoing basis using the most current information available. The financial statements have, in management's opinion, been properly prepared using careful judgment within reasonable limits of materiality and within the framework of the significant accounting policies. Significant areas where estimates and judgments are made in the application of IFRS are as follows:

i. Accounts receivable

Accounts receivable, which includes unbilled receivables, are reported based on the amounts expected to be recovered less a loss allowance for expected credit losses. Management utilizes historical loss experience and forward-looking information in conjunction with the aging and arrears status of accounts receivable at year-end in the determination of the allowance.

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Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

2. BASIS OF PRESENTATION [CONTINUED]

(d) Use of estimates and judgments [continued]

ii. Regulatory balances

The recognition and measurement of regulatory balances is subject to certain estimates, judgments and assumptions, including assumptions made in the interpretation of the OEB's regulations and decisions. The Company continues to assess the likelihood of recovery of all regulatory debit balances subject to recovery through a future rate filing. The absence of OEB approval is a consideration in this evaluation.

iii. Useful lives of depreciable assets

Depreciation and amortization expense is calculated based on estimates of the useful lives of property, plant and equipment, intangible assets and investment properties. Management estimates the useful lives of the various types of assets using assumptions and estimates of life characteristics of similar assets based on a long history of industry experience.

iv. Impairments of non-financial assets

Non-financial assets are reviewed by management for impairment using the future cash flows method. By their nature, estimates of future cash flows, including estimates of future capital expenditures, revenue, operating expenses, discount rates and market pricing are subject to measurement uncertainty.

v. Employee future benefits

The measurement of employee future benefits involves the use of numerous estimates and assumptions. Actuaries make assumptions for items such as discount rates, future salary increases and mortality rates in the determination of benefits expenses and accrued benefit obligations.

vi. Capital contributions

The timing of the satisfaction of performance obligations for capital contributions from customers is subject to certain estimates and assumptions.

vii. Deferred income taxes

Tax interpretations, regulations and legislation in which the Company operates are subject to change. Deferred income tax assets are assessed by management at the end of each reporting period to determine the likelihood that they will be realized from future taxable income.

3. SIGNIFICANT ACCOUNTING POLICIES

(a) Regulation

The Company is regulated by the OEB under the authority of the *Ontario Energy Board Act, 1998*. The OEB is charged with the responsibilities of approving or setting rates for the transmission and distribution of electricity, and ensuring that distribution companies fulfill obligations to connect and service customers.

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars] Hydro Ottawa Limited EB-2019-0261 Exhibit 1 Tab 3 Schedule 1 Attachment C UPDATED May 5, 2020 Page 14 of 41

3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(a) Regulation [continued]

For fiscal year ended December 31, 2019, the Company continued to operate under a custom incentive rate-setting application ['Custom IR'] prescribed by the OEB. The Custom IR is one of the rate setting options contained in the *Renewed Regulatory Framework for Electricity Distributors: A Performance-Based Approach* policy. The Company filed a custom incentive rate-setting application with the OEB on April 29, 2015 seeking approval to change the rates that the Company charges for electricity delivery, retail services, allowances, loss factor and specific services charges for a period of five years, to be effective January 1, 2016 to December 31, 2020. This application requested a revenue requirement to recover costs, and provide a rate of return on a deemed capital structure applied to rate base assets. The key components of the Company's Custom IR framework included the establishment of several regulatory accounts, namely: an asymmetrical earnings sharing mechanism variance account, revenue requirement differential variance account related to capital additions, new facilities deferral account, connection cost recovery agreement deferral account, and the efficiency adjustment mechanism deferral account. An annual IR application is required to set rates each year for 2017 to 2020. 2019 rates were set based on the Company's Year 4 IR annual update.

The Company applies for distribution rates based on estimated costs. Once rates are approved, they are not adjusted as a result of actual costs being different from those that were estimated, other than for certain prescribed costs that are eligible for deferral treatment and are either collected or refunded in future rates.

In January 2014, the International Accounting Standards Board ['IASB'] issued IFRS 14 – Regulatory Deferral Accounts ['IFRS 14'], which permits rate-regulated entities to use its existing rate-regulated activities practices if and only if, in its first IFRS financial statements, it recognized regulatory deferral account balances by electing to apply the requirements of IFRS 14

The Company has determined that certain debit and credit balances arising from rate-regulated activities qualify for the application of regulatory accounting treatment in accordance with IFRS 14 and the accounting principles prescribed by the OEB in the *Accounting Procedures Handbook for Electricity Distributors*. Regulatory debit and credit balances primarily represent costs that have been deferred because it is probable that they will be recovered in future rates, revenues that are required to be returned or collected to/from customers or balances that arise from differences in amounts billed to customers for electricity services and the costs that the Company incurs to purchase these services.

Regulatory balances principally comprise the following:

- Regulatory asset/liability refund account ['RARA'] consists of balances of regulatory assets or regulatory liabilities approved for disposition by the OEB through temporary additional rates referred to as rate riders.
- Settlement variances relate primarily to the charges the Company incurred for transmission services, commodity, wholesale market operations and global adjustment in comparison to those settled with customers during the year.
 The nature of the settlement variances is such that the balance can fluctuate between assets and liabilities over time, and they are reported at year-end dates in accordance with rules prescribed by the OEB.
- Lost Revenue Adjustment Mechanism ['LRAM'] account tracks and disposes of lost electricity distribution revenues that result from Conservation and Demand Management ['CDM'] programs.
- Earnings Sharing Mechanism ['ESM'] variance account captures 50% of any regulated earnings above Hydro Ottawa's approved return on equity for years 2016 to 2020.
- Facilities Y Factor captures the revenue requirement impacts arising from capital costs related to the new administrative and operations facilities for years 2019 and 2020 and the return of revenue requirement related to the former facilities.
- Gain on sale of former facilities consist of the after tax gain related to the sale of the former facilities.
- Other Post-employment Benefits deferral account ['OPEB deferral account'] was authorized by the OEB in 2011 to record the adjustment to employee future benefits other than pension relating to the cumulative actuarial gains or losses. This account is adjusted annually to record any changes in the cumulative actuarial gains or losses. No

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3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(a) Regulation [continued]

interest charges are recorded on this account as instructed by the OEB.

Other Post-employment Benefits cash versus accrual account ['OPEB cash vs accrual] tracks the interest on the
differential of the Company's contributions to OPEB versus the accrued OPEB expense recorded in the statement
of income.

Other variances and deferred costs include the following:

- the difference between low voltage charges paid to Hydro One Networks Inc. ['HONI'] and those charged to customers.
- the difference between actual amount of gain/loss from disposal of fixed assets and the forecasted gain/loss.
- the difference between the 2014 starting point and current year ending point stretch factor as multiplied by the rate
 year plan revenue requirement for the relevant rate year, referred to as the Efficiency Adjustment Mechanism
 ['EAM'].

The Company accrues interest on the regulatory balances as directed by the OEB.

The Company continues to assess the likelihood of recovery of all regulatory debit balances subject to recovery through a future rate filing. The absence of OEB approval is a consideration in this evaluation. If the requirement for a provision becomes more likely than not, the Company will recognize the provision in operating costs for the year.

(b) Revenue recognition

Depending on whether certain criteria are met the Company recognizes revenue from contracts with customers when it transfers control over a product or service to a customer either over time or at a point in time. For revenue from other sources, the Company recognizes revenue over time taking into consideration the facts and circumstances of the arrangement.

Revenue is measured at the consideration received or receivable, excluding sales taxes and other amounts collected on behalf of third parties in the following revenue arrangements.

i. Power recovery

Power recovery revenue represents the flow-through of the cost of power to the consumer as purchased by the Company and is recognized over time as electricity is delivered to the customer, as measured by meter readings or usage estimates. Power recovery revenue is regulated by the OEB and includes charges to customers for the electricity commodity, the transmission of electricity and the administration of the wholesale electricity system. The Company has determined that it acts as a principal in this revenue arrangement and therefore has presented it on a gross basis.

ii. Distribution

The Company charges customers for the delivery of electricity, based on rates established by the OEB. The rates are intended to allow the Company to recover its prudently incurred costs and earn a fair return on invested capital. Distribution revenue is recognized over time as electricity is delivered to the customer, as measured by meter readings or usage estimates.

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SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(b) Revenue recognition [continued]

Other iii.

Other revenue comprises revenue earned under contracts for service work related to distribution operations, pole attachment and duct rentals, capital contributions received from customers amortized to revenue, and other accountrelated charges such as account set-up and late payment fees. Revenue earned under contracts for service work related to distribution operations is recognized over time as the corresponding costs are recognized proportionately with the degree of completion of the services under contract. Losses on such contracts are fully recognized when they become evident. In certain situations, capital contributions are required from customers to finance additions to property, plant and equipment when the estimated revenue resulting from the addition to property, plant and equipment is less than the cost of providing the service or where special equipment is needed to supply the customers' specific requirements. Since the contributions will provide current and future customers with ongoing access to the supply of electricity, these contributions are classified as deferred revenue and amortized into revenue on a straight-line basis over time [the period a customer will receive services], which is typically equivalent to the rate used for the depreciation of the related property, plant and equipment [service life of the related assets]. All other revenues are recognized over time as services are rendered, except for revenue from certain account-related charges, which is recognized at a point in time.

Capital contributions received from developers to construct or acquire property, plant and equipment for the purpose of connecting future customers to the Company's distribution network are considered out of scope of IFRS 15. Capital contributions received from developers are recognized as deferred revenue and amortized into revenue from other sources at an equivalent rate to that used for the depreciation of the related property, plant and equipment.

Revenue from investment property is considered out of scope of IFRS 15, and accordingly classified as revenue from other sources. Rental income from investment property is recognized as revenue on a straight-line basis over the term of the lease.

Government grant income (c)

CDM income stems from the delivery of provincial government programs that promote conservation. Government grants under CDM programs are recognized when there is reasonable assurance that the grant will be received and all related conditions have been met. Grants under full cost recovery funding are recognized as income on a systematic basis over the period to match the costs they are intended to compensate. CDM performance incentives are recognized when it is probable that future economic benefits will flow to the Company, and the amount can be measured reliably. On March 21, 2019, the Ministry of Ontario announced that the CDM program is to be phased out before the end of 2021.

(d) Interest income and financing costs

Interest income is recognized as it accrues under the effective interest method and comprises interest earned on cash.

Financing costs are calculated using the effective interest rate method and are recognized as an expense unless they are capitalized as part of the cost of a qualifying asset.

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3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(e) Income taxes

The Company is considered to be a Municipal Electric Utility ['MEU'] and is required to make payments in lieu of corporate income taxes [PILS] as contained in the *Electricity Act, 1998*, as all of its share capital is indirectly owned by the City of Ottawa and not more than 10% of its income is derived from activities carried on outside the municipal boundaries of the City of Ottawa. The *Electricity Act, 1998* provides that a MEU that is exempt from tax under the *Income Tax Act* (Canada) ['ITA'] and the *Taxation Act*, Ontario ['TAO'] is required to make, for each taxation year, a PILs payment to the Ontario Electricity Financial Corporation in an amount equal to the tax that it would be liable to pay under the ITA and the TAO if it were not exempt from tax.

The Company follows the liability method for recording income taxes. Under the liability method, current income taxes payable are recorded based on taxable income. Deferred income taxes arising from temporary differences in the accounting and tax basis of assets and liabilities are provided based on substantively enacted tax rates that will be in effect when the differences are expected to reverse.

The Company recognizes regulatory balances for the amounts of future income taxes expected to be refunded to or recovered from customers in future electricity rates as prescribed by the OEB.

(f) Financial instruments

Financial instruments are initially measured at the fair value of the consideration given or received plus transaction costs that are directly attributable to the acquisition or issue of the financial instrument.

The Company's financial assets, upon initial recognition, are classified as amortized cost or fair value [whereby subsequent changes in fair value are recognized either through OCI ['FVOCI'] or through profit and loss ['FVTPL'] as unrealized market adjustments]. Financial assets are classified based on the Company's business model for managing such assets and the contractual terms of the related cash flows.

The Company's financial liabilities, upon initial recognition, are classified as amortized cost or FVTPL. A financial liability is classified as FVTPL if it is classified as held-for-trading, it is a derivative or it is designated as such on initial recognition.

The Company classifies and subsequently measures its financial instruments as follows:

- Cash and accounts receivable are financial assets classified and measured at amortized cost using the effective interest method, less any impairment if applicable.
- Bank indebtedness, accounts payable and accrued liabilities, customer deposits and notes payable are financial liabilities classified and measured at amortized cost using the effective interest rate method.

The fair value of a financial instrument is the amount of consideration that would be agreed upon in an arm's-length transaction between willing parties. The Company's own credit risk and the credit risk of the counterparty are taken into account in determining the fair value of financial assets and liabilities. Financial instruments are classified using a three-level hierarchy. The levels reflect the inputs used to measure the fair values of financial assets and financial liabilities, and are as follows:

- Level 1: inputs are unadjusted quoted prices of identical instruments in active markets;
- Level 2: inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly; and
- Level 3: inputs for the liabilities that are not based on observable market data [unobservable inputs].

All financial assets except for those classified as FVTPL or FVOCI are subject to review for impairment at least at each reporting date. Impairment losses, if any, are recognized in net income. An impairment loss is reversed if the reversal can be related objectively to an event occurring after the impairment loss was recognized.

The Company recognizes loss allowances for expected credit losses ['ECL's] on financial assets measured at amortized cost. The Company measures loss allowances for electricity receivables, unbilled receivables relating to electricity and trade

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Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(f) Financial instruments [continued]

receivables via a simplified approach as permitted by IFRS 9, at an amount equal to lifetime ECL.

When determining whether the credit risk of a financial asset has increased, the Company performs a quantitative and qualitative analysis based on the Company's historical experience and forward-looking information. The Company assumes that the credit risk on a financial asset has increased significantly if it is more than 30 days past due. The Company considers a financial asset to be in default when the borrower is unlikely to pay its credit obligations to the Company in full, without recourse by the Company to actions such as realizing security.

Loss allowances for financial assets measured at amortized cost are deducted from the gross carrying amount of the assets. The gross carrying amount of a financial asset is written off to the extent that there is no realistic prospect of recovery.

(g) Property, plant and equipment

Property, plant and equipment consist principally of electricity distribution infrastructure, buildings and fixtures, land, rolling stock, furniture and equipment, and assets under construction.

Emergency capital spare parts that are expected to be used for more than one year, are considered to be assets under construction and are depreciated only once they are put into service.

Property, plant and equipment are measured at cost less accumulated depreciation and accumulated impairment losses, if any. Self-constructed asset costs comprise all directly attributable expenditures to bring the asset into operation including labour, materials, employee benefits, transportation, contracted services and borrowing costs. Where parts of an item in property, plant and equipment are significant and have different estimated economic useful lives, they are accounted for as separate items [major components] of property, plant and equipment. Certain assets may be acquired or constructed with financial assistance in the form of contributions from customers. Contributions from customers are treated as deferred revenue.

The cost of major inspections and maintenance is recognized in the carrying value of an asset provided that the Company will derive future economic benefits from the expenditure. The carrying amount of a replaced part is derecognized. The costs of day-to-day servicing, repairs, and maintenance, are expensed as incurred.

Depreciation is recorded on a straight-line basis over the estimated service life of each component of property, plant and equipment.

Gains and losses on disposal of retired, sold or otherwise derecognized property, plant and equipment are recognized in income and are calculated as the difference between net proceeds from disposal and the carrying amount of the asset.

The estimated useful lives, residual values and depreciation methods are reviewed at each year-end with the effect of any changes in estimate being accounted for on a prospective basis.

Estimated service lives for property, plant and equipment classes are as follows:

Land and buildings

Land Indefinite
Buildings and fixtures 10 to 75 years

Distribution assets 10 to 60 years

Equipment and other

Furniture and equipment 5 to 40 years Rolling stock 7 to 15 years

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3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(g) Property, plant and equipment [continued]

Assets under construction and land are not subject to depreciation. Borrowing costs are capitalized as a component of the cost of self-constructed property, plant and equipment assets that take a substantial period of time to get ready for their intended use. The capitalization rate is the Company's weighted average cost of borrowing.

(h) Intangible assets

Intangible assets include land rights, capital contributions, computer software and assets under development.

Intangible assets with finite lives are measured at cost less accumulated amortization and accumulated impairment losses, if any. Intangible assets are amortized on a straight-line basis over the estimated service lives of the related assets.

Intangible assets are derecognized on disposal or when no further future economic benefits are expected from their use. Gains or losses on disposal of intangible assets are recognized in income and are calculated as the difference between net proceeds from disposal and the carrying amount of the asset.

The estimated useful lives and amortization methods are reviewed at each year-end with the effect of any changes in estimate being accounted for on a prospective basis.

Estimated service lives for intangible assets with finite lives are as follows:

Land rights 50 years
Computer software 5 to 13 years
Capital contributions 45 years

Borrowing costs are capitalized as a component of cost of self-constructed intangible assets that take a substantial period of time to get ready for their intended use. The capitalization rate is the Company's weighted average cost of borrowing.

(i) Investment properties

Investment property is land and/or buildings held for purposes other than for use in the Company's operating activities. The Company holds investment property either for potential expansion of the service delivery network or as excess administrative property. Investment properties are measured at cost plus transaction costs, and have estimated service lives ranging between 25 and 50 years. Any gain or loss arising from the sale of an investment property is immediately recognized in income.

(j) Impairment of non-financial assets

At the end of each reporting period, or earlier if required, management uses its judgment to assess whether there is an indication that the carrying amount of a non-financial asset [or cash generating unit, 'CGU'] exceeds its recoverable amount. A CGU is the smallest identifiable group of assets that generates cash inflows that are largely independent of the cash inflows from other assets or groups of assets. This assessment involves the consideration of whether any events or changes in circumstances could have affected the recoverability of the carrying amount of a non-financial asset or CGU. Management considers various indicators including, but not limited to, adverse changes in the industry or economic conditions, changes in the degree or method of use of an asset, a lower than expected economic performance of an asset or a significant change in market returns or interest rates. If any indication exists, the Company estimates the asset's recoverable amount, which is the higher of an asset or CGU's fair value less costs of disposal and its value in use. If the carrying value of a non-financial asset exceeds its recoverable amount, the difference is immediately recognized as an impairment loss in profit or loss.

Intangible assets not yet available for use are tested for impairment [within their respective CGUs] at least annually, and whenever there is an indication that the asset may be impaired.

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3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(j) Impairment of non-financial assets [continued]

When determining the recoverable amount, the Company determines its value-in-use by discounting estimated future cash flows to their present value using a discount rate that reflects changes in the time value of money and the risks specific to the asset or the CGU. The discount rate estimated and used by management represents the weighted average cost of capital determined for the CGU being tested.

At the end of a reporting period, if there is any indication that an impairment loss recognized in a prior period no longer exists or has decreased, the loss is reversed up to its recoverable amount. The carrying amount following the reversal must not be higher than the carrying amount that would have prevailed [net of amortization] had the original impairment not been recognized in prior periods.

(k) Employee future benefits

i. Pension plan

The Company provides pension benefits for its employees through the Ontario Municipal Employees Retirement System ['OMERS'] Fund [the 'Fund']. OMERS is a multi-employer pension plan that provides pensions for employees of Ontario municipalities, local boards, public utilities and school boards. The Fund is a defined benefit pension plan, which is financed by equal contributions from participating employers and employees and by the investment earnings of the Fund.

Although the plan is a defined benefit plan, sufficient information is not available to the Company to account for it as such because it is not possible to attribute the fund assets and liabilities between the various employers who contribute to the Fund. As a result, the Company accounts for the plan as a defined contribution plan, and contributions payable as a result of employee service are expensed as incurred as part of operating costs. The Company shares in the actuarial risks of the other participating entities in the plan, and its future contributions may therefore be increased due to actuarial losses relating to the other participating entities. In addition, the Company's contributions could be increased if other entities withdraw from the plan.

ii. Other post-employment benefits

Employee future benefits other than pensions provided by the Company include life insurance and a retirement grant. These plans provide benefits to certain employees when they are no longer providing active service.

Employee future benefits expense is recognized in the period during which the employees render services.

Employee future benefits are recorded on an accrual basis. The accrued benefit obligation and current service costs are calculated using the projected benefit method prorated on service and based on assumptions that reflect management's best estimates. The current service cost for a period is equal to the actuarial present value of benefits attributed to employees' services rendered in the period. Actuarial gains and losses resulting from experience different from that assumed or from changes in actuarial assumptions are recognized in OCI. However, for the Company, these amounts are reclassified to a regulatory debit balance as prescribed by the OEB.

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3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(k) Employee future benefits [continued]

iii. Employee benefits

The Company provides short-term employee benefits, such as: salaries, employment insurance, short-term compensated absences, health and dental care. These benefits are recognized as the related service is rendered and is measured on an undiscounted basis. Short-term employee benefits are recognized as an expense unless they qualify for capitalization as part of the cost of an item of materials and supplies, property, plant and equipment, intangible assets. A liability is recognized in respect of any unpaid short-term employee benefits for services rendered in the reporting period.

The Company recognizes a liability for the expected cost of accumulated non-vested sick leave benefits at the end of the reporting period. The Company presents its non-vested sick leave obligation as a non-current liability since it does not expect to settle all of it sick leave benefits within twelve months.

(I) Customer deposits

Customer deposits are cash collections from customers to guarantee the payment of energy bills and fulfillment of construction obligations. Customer deposits from customers to guarantee the payment of energy bills includes related interest amounts owed to the customers. Deposits estimated to be refundable to customers within the next fiscal year are classified as current liabilities and included in accounts payable and accrued liabilities.

(m) Provisions and contingencies

The Company recognizes provisions when there is a present legal or constructive obligation as a result of a past event, it is probable that an outflow of economic benefits will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation. If the effect is material, provisions are determined by discounting the expected future cash flows at a pre-tax rate that reflects current market assessments of the time value of money and, where appropriate, the risks specific to the liability. Provisions are remeasured at each balance sheet date.

The evaluation of the likelihood of the contingent events requires judgment by management as to the probability of exposure to potential loss. Actual results could differ from these estimates.

A contingent asset is not recognized in the financial statements. However, a contingent asset is disclosed where an inflow of economic benefits is probable.

(n) Leases

Effective January 1, 2019, the Company has adopted IFRS 16 – *Leases* ['IFRS 16'] as described in Note 4 of these financial statements.

At the inception of a contract, the Company assesses whether the contract is, or contains, a lease based on whether the contract conveys the right to control the use of an identified asset for a period of time, in exchange for consideration.

As a lessee

As a lessee, leases are recognized as right-of-use ['ROU'] assets and a lease liability at the lease commencement date. ROU assets are initially measured at cost, and subsequently carried at cost less accumulated depreciation and impairments, if any. The initial cost of an ROU asset equals the amount of the initial measurement of the corresponding lease liability, plus any initial direct costs incurred to bring the assets into operation. ROU assets are classified within property, plant and equipment in these financial statements.

Lease liabilities are initially measured at the present value of lease payments that are not paid at the commencement

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3. SIGNIFICANT ACCOUNTING POLICIES [CONTINUED]

(n) Leases [continued]

i. As a lessee [continued]

date. The lease payments are discounted using the rate implicit in the lease or, if that rate cannot be readily determined, the Company's incremental borrowing rate which reflects the Company's ability to borrow money over a similar term, for an asset of similar value to the underlying asset, similar security or in a similar economic environment. Variable lease payments that do not depend on an index or rate are not included in the measurement of the lease liability.

Lease liabilities are subsequently measured at amortized cost using the effective interest method. It is remeasured when there is a change in future lease payments arising from a change in an index or rate, if there is a change in the Company's estimate of the amount expected to be payable under a residual value guarantee, or if the Company changes its assessment of whether it will exercise a purchase, extension or termination option.

When a lease liability is remeasured in this way, a corresponding adjustment is made to the carrying amount of the ROU asset, or is recorded in profit or loss if the carrying amount of the ROU asset has been reduced to zero. Payments under lease liabilities are apportioned between interest expense and a reduction of the outstanding lease liability.

Where the Company is reasonably certain it will obtain ownership of the ROU asset before the end of the lease term, the asset is depreciated over its useful life on a straight-line basis. Otherwise, depreciation is calculated over the shorter period of the lease term and the asset's useful life. The lease term includes periods covered by an option to extend if the Company is reasonably certain to exercise that option.

Payments related to short-term [12 months or less] and low value leases are recognized as operating expenses over the lease term in the statement of income.

ii. As a lessor

The Company enters into lease agreements as a lessor with respect to certain investment properties. The terms of these lease arrangements do not transfer substantially all the risks and rewards of ownership to the lessee, and therefore have been classified as operating leases. Rental income from operating leases is recognised on a straight-line basis over the term of the applicable lease.

4. NEW ACCOUNTING PRONOUNCEMENTS

On January 1, 2019, the Company adopted IFRS 16 – *Leases* ['IFRS 16'] using the modified retrospective approach, which does not require restatement of prior period financial information, as it recognizes the cumulative impact on the opening balance sheet and applies the standard prospectively. Accordingly, the comparative information continues to be reported under International Accounting Standard 17 – *Leases* ['IAS 17'] and International Financial Reporting Interpretations Committee, Interpretation 4 – *Determining whether an Arrangement contains a Lease* ['IFRIC 4'].

IFRS 16 eliminates the former dual model [on and off balance sheet] and provides greater comparability between companies who lease assets and those who purchase assets with a single on-balance sheet approach. Under IFRS 16, all leases from the lessee's perspective are recognized on the balance sheet, with exemptions for short-term [12 months or less] and low-value leases. Lessor accounting remains substantially unchanged.

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Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

4. NEW ACCOUNTING PRONOUNCEMENTS [CONTINUED]

On transition to IFRS 16, the Company elected to use a practical expedient permitting the Company to not apply IFRS 16 to contracts that were not previously identified as containing a lease applying IAS 17 and IFRIC 4. The Company applied the definition of a lease under IFRS 16 to contracts entered into or changed on or after January 1, 2019. Additionally, the Company elected to use the practical expedient for short-term [12 months or less] and low-value leases.

The adoption of IFRS 16 by the Company did not result in the recognition of any new ROU assets or lease liabilities.

5. ACCOUNTS RECEIVABLE

	2019	2018
	\$	\$
Receivables from contracts with customers		
Electricity receivable	58,218	59,933
Unbilled receivables related to electricity	78,417	80,180
Other receivables	32,184	15,571
Amounts due from related party [Note 25]	10,380	7,995
Less: loss allowance [Note 17(c)]	(1,981)	(2,368)
	177,218	161,311
Receivables from other sources		
Conservation and demand management	2,472	1,503
	179,690	162,814

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

6. REGULATORY BALANCES

Information about the Company's regulatory balances is as follows:

	Remaining recovery/ reversal [years]	2018 \$	Balances arising in the year \$	Recovery/ reversal \$	Other movements ⁽¹⁾	2019 \$
Regulatory debit balances						
RARA	1	392	125	4	-	521
Settlement variances	1-5	2,003	4,203	-	(1,265)	4,941
Facilities Y Factor	1	-	2,592	-	-	2,592
OPEB cash versus accrual	1-5	6	1,522	-	(278)	1,250
LRAM	1-5	3,100	1,436	_	_	4,536
Loss on asset disposal	1-5	1,383	2,218	-	-	3,601
Regulatory asset for deferred income taxes	(2)	25,806	12,253	-	-	38,059
Other variances and deferred costs	1-5	1,977	1,192	-	-	3,169
		34,667	25,541	4	(1,543)	58,669
Regulatory credit balances						
RLRA	1	1,623	8,179	(8,051)	-	1,751
Settlement variances	1-5	13,437	(1,787)	-	(897)	10,753
ESM	1-5	3,387	387	-	-	3,774
Gain on sale of former facilities	1	-	2,152	_	-	2,152
OPEB deferral account	1-5	272	12	-	(278)	6
Other variance and deferred costs	1-5	973	2,673	-	(368)	3,278
		19,692	11,616	(8,051)	(1,543)	21,714

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

6. REGULATORY BALANCES [CONTINUED]

	Remaining recovery/ reversal [years]	2017 \$	Balances arising in the year \$	Recovery/ reversal \$	Other movements ⁽¹⁾	2018 \$
Regulatory debit balances						
RARA	1	-	437	196	(241)	392
Settlement variances	1-5	2,508	(505)	-	-	2,003
OPEB deferral account	1-5	782	-	-	(782)	-
LRAM	1-5	2,571	529	-	-	3,100
OPEB cash vs accrual	1-5	-	6	-	-	6
Regulatory asset for deferred income taxes	(2)	16,797	9,009	-	-	25,806
Loss on asset disposal	1-5	907	476	-	-	1,383
Other variances and deferred costs	1-5	1,464	513	-	-	1,977
-		25,029	10,465	196	(1,023)	34,667
Regulatory credit balances						
RLRA	1	1,464	13,214	(13,056)	-	1,622
Settlement variances	1-5	20,761	(7,325)	-	-	13,436
ESM	1-5	1,385	2,002	-	-	3,387
OPEB deferral account	1-5	-	1,054	-	(782)	272
Other variances and deferred						
costs	1-5	899	76	-	-	975
		24,509	9,021	(13,056)	(782)	19,692

⁽¹⁾ Other movements represent reclassifications of balances

The following regulatory balances include accrued interest which is presented in net movements in regulatory balances:

- The RARA/RLRA includes accrued interest revenue of \$105 [2018 interest costs of \$145].
- Settlement variances include accrued interest revenue of \$26 [2018 interest costs of \$52].
- Other variance and deferred costs include accrued interest costs of \$80 [2018 interest revenue of \$36]

Details and descriptions pertaining to the regulatory debt and credit balances are disclosed in Note 3(a) of these financial statements.

⁽²⁾ The balance is being reversed through timing differences in the recognition of deferred income tax assets [Note 3(e)]

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

7. PROPERTY, PLANT AND EQUIPMENT

	Land and buildings \$	Distribution assets \$	Equipment and other \$	Assets under construction \$	Total \$
Cost					
Balance at December 31, 2017	86,445	898,833	35,428	69,094	1,089,800
Additions, net of transfers	3,628	110,378	4,997	69,940	188,943
Disposals	_	(563)	(337)	_	(900)
Balance at December 31,2018	90,073	1,008,648	40,088	139,034	1,277,843
Additions, net transfers	78,147	130,865	16,624	(92,111)	133,525
Disposals	(21,647)	(5,260)	(4,228)	-	(31,135)
Balance at December 31, 2019	146,573	1,134,253	52,484	46,923	1,380,233
Accumulated depreciation					
Balance at December 31, 2017	(10,412)	(104,624)	(11,101)	-	(126,137)
Depreciation	(2,527)	(33,221)	(4,282)	-	(40,030)
Disposals	-	383	200	-	583
Balance at December 31,2018	(12,939)	(137,462)	(15,183)	-	(165,584)
Depreciation	(3,891)	(36,358)	(5,296)	-	(45,545)
Disposals	7,096	2,530	3,919	-	13,545
Balance at December 31, 2019	(9,734)	(171,290)	(16,560)	-	(197,584)
Net book value					
At December 31, 2018	77,134	871,186	24,905	139,034	1,112,259
At December 31, 2019	136,839	962,963	35,924	46,923	1,182,649

During the year, the Company capitalized borrowing costs of \$2,353 [2018 – \$2,423] to property, plant and equipment. The average annual interest rate for 2019 was 3.4% [2018 – 3.4%].

In 2019, the Company sold two facilities [including land and building] inherited from pre-amalgamation utilities [i.e. prior to October 3, 2000] for total cash proceeds of \$16,000. In addition, on December 20, 2019, the Company sold vacant land to 2725163 Ontario Inc. [a newly formed company under common control by Hydro Ottawa Holding Inc.] for cash proceeds of \$1,827.

During the year, the Company recognized a loss on disposal of property, plant and equipment of \$30 [2018 – gain on disposal of \$256], which includes a gain on sale of vacant land to 2725163 Ontario Inc. of \$1,759.

Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

8. INTANGIBLE ASSETS

	Land rights \$	Computer software \$	Capital contributions	Assets under development \$	Total \$
Cost					
Balance at December 31, 2017	2,294	64,972	20,776	11,688	99,730
Additions, net of transfers	(5)	1,657	2,200	(517)	3,335
Balance at December 31, 2018	2,289	66,629	22,976	11,171	103,065
Additions, net transfers	438	1,921	11,710	(1,681)	12,388
Disposals	-	(1,947)	-	-	(1,947)
Balance at December 31, 2019	2,727	66,603	34,686	9,490	113,506
Accumulated amortization Balance at December 31, 2017 Amortization	(216) (59)	(26,088) (8,972)	(1,079) (477)	- -	(27,383) (9,508)
Balance at December 31, 2018	(275)	(35,060)	(1,556)	-	(36,891)
Amortization	(65)	(6,143)	(627)	=	(6,835)
Disposals	-	1,942	_	_	1,942
Balance at December 31, 2019	(340)	(39,261)	(2,183)	-	(41,784)
Net book value					
At December 31, 2018	2,014	31,569	21,420	11,171	66,174
At December 31, 2019	2,387	27,342	32,503	9,490	71,722

The Company is party to various Connection and Cost Recovery Agreements ['Capital contributions'] with Hydro One Networks Inc. ['HONI']. These agreements govern the construction by HONI of new or modified transformer stations for the purpose of serving the Company's customers, including anticipated electricity load growth. All terms and conditions of CCRAs follow the *Transmission System Code* [the 'Code'] issued by the OEB.

After conducting a review of the useful lives of its intangible assets, management determined that the useful life of two key computer software programs needed to be extended to align with the Company's IT replacement strategy. The impact of this change in estimate is a reduction in amortization expense of approximately \$2,200 in the current year.

During the year, the Company capitalized borrowing costs of 278 [2018 - 73] to intangible assets. The average annual interest rate for 2019 was 3.4% [2018 - 3.4%].

During the year, the Company recognized a loss on disposal of intangible assets of \$5 [2018 - \$nil]

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Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

9. INVESTMENT PROPERTIES

	2019 \$	2018 \$
Net book value, beginning of year	2,338	2,456
Additions	45	-
Depreciation	(124)	(118)
Net book value, end of year	2,259	2,338

The fair value of investment properties is \$5,461, which is based on the latest Municipal Property Assessment Corporation valuation dated May 16, 2019.

10. CREDIT FACILITY

The Company has access to a \$90,000 [December 31, 2018 – \$90,000] revolving demand credit facility and a \$400 [December 31, 2018 – \$400] commercial card facility available from Hydro Ottawa Holding Inc. As at December 31, 2019, the Company has drawn \$26,323 [December 31, 2018 – \$27,673] in bank indebtedness and \$nil [December 31, 2018 – \$47,000] in bankers acceptances against this credit facility. The rate of interest is based on the rate applicable to Hydro Ottawa Holding Inc.'s outstanding bankers' acceptances drawn on that date. Otherwise, the rate of interest is based on the Bank of Canada's 'Bankers Acceptances 1 month' rate.

11. ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

	2019	2018
	\$	\$
Purchased power payable	88,494	74,747
Trade accounts payable and accrued liabilities	30,709	39,298
Customer deposits	18,899	20,057
Customer credit balances	11,739	10,964
Due to related parties [Note 25]	5,227	2,788
	155,068	147,854

In 2019, the Company conducted a true-up calculation in connection with one of its cost recovery agreements with HONI as described in Note 23. As a result, the Company has determined that it is obligated to make up a shortfall and accordingly set-up a provision of \$2,200, which is included in accounts payable and accrued liabilities.

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Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

12. DEFERRED REVENUE

	2019	2018
	\$	\$
Capital contributions from customers	76,380	61,888
Capital contributions from developers	65,807	53,881
	142,187	115,769

13. EMPLOYEE FUTURE BENEFITS

(a) Pension plans

The Company's participating employer contributions under OMERS for the year ended December 31, 2019 amounted to \$5,721 [2018 – \$5,905].

(b) Other employee future benefits

Employee future benefits are calculated using an annual compensation rate increase of 2.0% [2018 – 2.0%] and a discount rate of 3.1% [2018 – 3.9%] to calculate the liabilities. The valuations also include several other economic and demographic assumptions including mortality rates. The mortality assumption is based on the *Canadian Pensioners' Mortality* report published by the Canadian Institute of Actuaries in February 2014.

Information about the Company's employee future benefits other than pension plans is as follows:

	2019 \$	2018 \$
Defined benefit obligation, beginning of year	12,367	13,334
Current service costs	305	338
Past service costs	70	-
Interest on accrued benefit obligation	857	398
Benefit payments	(717)	(649)
Actuarial loss (gain)	1,522	(1,054)
Defined benefit obligation, end of year	14,404	12,367

An actuarial valuation was performed as at December 31, 2019. As a result of this exercise, the Company increased the accumulated liability by \$2,037 [December 31, 2018 – decreased by \$967 based on an actuarial extrapolation].

Significant changes in actuarial assumptions related to discount rates, future health and dental costs, mortality rates and retirement age may affect the valuation of the defined benefit obligation.

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Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

14. NOTES PAYABLE

The Company currently has the following promissory notes and grid promissory notes payable to Hydro Ottawa Holding Inc.:

	2019	2018
	\$	\$
4.97% promissory note, due December 19, 2036	50,000	50,000
4.14% for the first five years [3.99% thereafter] promissory note, issued May 14, 2013 and due May 14, 2043	107,185	107,185
2.72% for the first five years [2.61% thereafter] promissory note, issued February 9, 2015 and due February 3, 2025	138,667	138,667
3.77% for the first five years [3.64% thereafter] promissory note, issued February 9, 2015 and due February 2, 2045	121,333	121,333
2.72% for the first five years [2.61% thereafter] promissory note, issued June 25, 2015 and due June 25, 2025	15,999	15,999
3.77% for the first five years [3.64% thereafter] promissory note, issued June 25, 2015 and due June 25, 2045	14,001	14,001
2.66% promissory note, due October 16, 2029	87,500	-
3.21% promissory note, due October 16, 2049	162,500	-
3.72% grid promissory note, due on demand, repaid during the year	-	60,000
4.12% grid promissory note, due on demand, repaid during the year	-	60,000
4.41% grid promissory note, due on demand, repaid during the year	-	30,000
	697,185	597,185

On October 17, 2019, the Company repaid all outstanding advances on the grid promissory note to Hydro Ottawa Holding Inc. It then issued two new promissory notes on the same date in the amount of \$87,500 [10-year] and \$162,500 [30-year] to Hydro Ottawa Holding Inc.

The grid promissory note facility bears fixed-rate interest based on the cost of long-term debt for Ontario's Regulated Utilities in accordance with the OEB's cost of capital calculations.

15. CAPITAL DISCLOSURES

The Company's main objectives when managing capital are to:

- Ensure continued access to funding to maintain and improve the operations and infrastructure of the Company;
- Ensure compliance with covenants related to the credit facilities and senior unsecured debentures entered into by its parent company, Hydro Ottawa Holding Inc.; and
- Align Hydro Ottawa Limited's capital structure with the debt to equity structure recommended by the OEB.

Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

15. CAPITAL DISCLOSURES [CONTINUED]

The Company's capital consists of the following:

	2019 \$	2018 \$
Bank indebtedness	26,323	27,673
Notes payable	697,185	597,185
Total debt	723,508	624,858
Shareholder's equity	380,318	360,918
Total capital	1,103,826	985,776
Debt capitalization ratio	65.55 %	63.39 %

The Company is in compliance with all financial covenants and limitations associated with its credit facilities and its long-term debt.

The Company is deemed by the OEB to have a capital structure that is funded by 56% long-term debt, 4% short-term debt and 40% equity. The OEB uses this deemed structure only as a basis for setting distribution rates. As such, the Company's actual capital structure may differ from the OEB deemed structure.

The Company met its capital management objectives, which have not changed during the year.

16. SHARE CAPITAL

(a) Authorized

Unlimited number of voting first preferred shares, redeemable at one dollar per share

Unlimited number of non-voting second preferred shares, redeemable at ten dollars per share

Unlimited number of non-voting third preferred shares, redeemable at one hundred dollars per share

Unlimited number of voting fourth preferred shares [ten votes per share], redeemable at one hundred dollars per share

Unlimited number of voting Class A common shares

Unlimited number of non-voting Class B common shares

Unlimited number of non-voting Class C common shares, redeemable at the price at which such shares are issued

The above shares are without nominal or par value.

Holders of second preferred shares, fourth preferred shares and common shares are entitled to receive dividends as and when declared by the Board of Directors at their discretion.

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Exhibit 1 Tab 3 Schedule 1 Attachment C **UPDATED**

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Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

16. SHARE CAPITAL [CONTINUED]

(b) Issued

2019	2018
\$	\$
154,789,001 Class A common shares 167,081	167,081

Any invitation to the public to subscribe for shares of the Company is prohibited by shareholder resolution.

On April 16, 2019, the Board of Directors declared a \$12,300 dividend on the common shares of the Company outstanding on December 31, 2018. The dividend was paid to the sole shareholder, Hydro Ottawa Holding Inc. on April 23, 2019 [2018 – April 19, 2018, the Board of Directors declared a \$11,900 dividend which was paid on April 26, 2018].

On September 23, 2019, the Board of Directors declared a \$6,000 dividend on the common shares of the Company outstanding on June 30, 2019. The dividend was paid to the sole shareholder, Hydro Ottawa Holding Inc. on September 30, 2019.

17. FINANCIAL INSTRUMENTS AND RISK MANAGEMENT

(a) Fair value disclosures

The carrying values of the Company's financial instruments, except for notes payable, approximates fair value because of the short maturity and nature of the instruments. The fair value measurement of the financial instrument for which the fair value has been disclosed is included in Level 2 of the fair value hierarchy [Note 3(f)].

The Company has estimated the fair value of the notes payable as at December 31, 2019 as amounting to \$754,161 [December 31, 2018 - \$600,195]. The fair value has been determined based on discounting all future payments of interest and the principal repayment on January 1, 2020, at the estimated interest rate of 2.9% [2018 - 3.7%] that would be available to the Company on December 31, 2019.

(b) **Market risk**

The Company is exposed to market risk, which is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market prices. Market prices are comprised of three types of risks: interest rate risk, foreign exchange risk and commodity price risk.

(i) Interest rate risk

The Company is exposed to interest rate risk on its borrowings. The Company mitigates exposure to interest rate risk by fixing interest rates on its notes payable with its parent company. Under Hydro Ottawa Holding Inc.'s credit facilities, any advances on its operating line would expose the Company to fluctuations in short term interest rates related to prime rate loans and bankers' acceptances as all short-term financing requirements are obtained through its parent company, which passes on its borrowing costs. The interest rate risk is deemed to be low due to the immaterial cost of its short-term borrowings. For the most part, the borrowing requirements are for a very short duration as the advances serve to bridge gaps between the cash outflow related to the monthly power bill and the inflows related to the settlements with customers and, as such, there is very limited exposure to interest rate risk.

A sensitivity analysis was conducted to examine the impact of a change in the prime rate on the Company's advances from Hydro Ottawa Holding Inc. A variation of 1% [100 basis points], with all other variables held constant, would increase or decrease the annual interest expense by approximately \$446.

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Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

17. FINANCIAL INSTRUMENTS AND RISK MANAGEMENT [CONTINUED]

(b) Market risk [continued]

The Company is also exposed to fluctuations in interest rates as its regulated rate of return is derived using a complex formulaic approach which is in part based on the forecast for long-term Government of Canada bond yields. This rate of return is approved by the OEB as part of the approval of distribution rates.

(ii) Foreign exchange risk

As at December 31, 2019, the Company has limited exposure to fluctuations in foreign currency exchange rates. The Company does purchase a small proportion of goods and services that are denominated in foreign currencies, predominately the US dollar. The impact of the fluctuation of foreign currencies on the gains or losses of accounts payable denoted in foreign currencies is not material.

(iii) Commodity price risk

The Company does not have commodity price risk due to the flow-through nature of power purchases.

(c) Credit risk

Credit risk is the risk that a counterparty will default on its obligations, causing a financial loss to the Company. Concentration of credit risk associated with accounts receivable is limited due to the large number of customers the Company services. The Company has approximately 340,000 customers, the majority of which are residential. As a result, the Company did not earn a significant amount of revenue and does not have a significant receivable from any individual customer.

The Company performs ongoing credit evaluations of its customers and requires collateral to support non-residential customer accounts receivable on specific accounts to mitigate significant losses in accordance with OEB legislation. As at December 31, 2019, the Company held security deposits related to power recovery and distribution sales in the amount of \$14,713 [December 31, 2018 – \$16,009] with respect to these customers.

The Company monitors and limits its exposure to credit risk on a continuous basis.

The Company applies the IFRS 9 simplified approach to measuring expected credit losses which uses a lifetime expected loss allowance for all trade and other receivables. The expected loss rates for trade receivables are based on the payment profiles of sales over a period of 12 months before December 31, 2019 or December 31, 2018 respectively and the corresponding historical credit losses experienced within this period and other information. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomic factors affecting the ability of the customers to settle the receivables.

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

17. FINANCIAL INSTRUMENTS AND RISK MANAGEMENT [CONTINUED]

(c) Credit risk [continued]

On that basis, the loss allowance as at December 31, 2019 and December 31, 2018 was determined as follows for trade and other receivables.

	Gross carrying amount	Weighted average loss rate	Loss allowance	Net carrying amount
	\$		\$	\$
December 31, 2019				
Outstanding for 30 days or less	93,502	0.00 %	-	93,502
Outstanding for more than 30 days but not more than 120 days	7,360	6.89 %	507	6,853
Outstanding for more than 120 days	2,392	56.06 %	1,341	1,051
Unbilled receivables related to electricity	78,417	0.17 %	133	78,284
	181,671		1,981	179,690
December 31, 2018				
Outstanding for 30 days or less	73,286	0.00 %	-	73,286
Outstanding for more than 30 days but not more than 120 days	7,585	9.70 %	736	6,849
Outstanding for more than 120 days	4,131	35.85 %	1,481	2,650
Unbilled receivables related to electricity	80,180	0.19 %	151	80,029
	165,182		2,368	162,814

The following table reconciles the opening and closing loss allowance for trade and other receivables:

2019	2018
\$	\$
2,368	2,371
887	1,694
(1,496)	(2,023)
222	326
1,981	2,368
	\$ 2,368 887 (1,496) 222

Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

17. FINANCIAL INSTRUMENTS AND RISK MANAGEMENT [CONTINUED]

(c) Credit risk [continued]

Impairment losses on trade and other receivables are presented as net impairment losses within the statement of income. When a receivable is deemed to be uncollectible, it is written off and the expected loss allowance is adjusted accordingly. Subsequent recoveries of receivables previously provisioned or written off result in a reduction of impairment losses included in operating costs in the statement of income.

As at December 31, 2019, there were no significant concentrations of credit risk with respect to any class of financial assets or counterparties and the Company's maximum exposure to credit risk is equal to the carrying value of accounts receivable less customer deposits held.

(d) Liquidity risk

Liquidity risk is the risk that the Company will not meet its financial obligations as they come due. The Company's parent, Hydro Ottawa Holding Inc., manages all the financing and investing activities for the Company. The Company has access to credit facilities with Hydro Ottawa Holding Inc. [Note 10]. These credit facilities are available to the Company to help meet its financial obligations as they come due.

Liquidity risks associated with financial commitments are as follow:

		2019	
	Due within one year	Due between one and five years	Due after five
	\$	\$	\$
Bank indebtedness	26,323	-	-
Accounts payable and accrued liabilities	153,062	-	-
Notes payable			
4.97% promissory note, due December 19, 2036	-	-	50,000
4.14% for the first five years [3.99% thereafter] promissory note, due May 14, 2043	_	-	107,185
2.72% for the first five years [2.61% thereafter] promissory note, due February 3, 2025	-	-	138,667
3.77% for the first five years [3.64% thereafter] promissory note, due February 2, 2045	_	-	121,333
2.72% for the first five years [2.61% thereafter] promissory note, due June 25, 2025	_	-	15,999
3.77% for the first five years [3.64% thereafter] promissory note, due June 25, 2045	_	-	14,001
2.66% promissory note, due October 16, 2029	-	-	87,500
3.21% promissory note, due October 16, 2049	-	-	162,500
Interest to be paid on notes payable	23,919	93,093	347,578
	203,304	93,093	1,044,763

Account payable and accrued liabilities in the above table exclude \$2,006 of accrued interest which is included in interest to be paid on notes payable.

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

18. REVENUE FROM CONTRACTS WITH CUSTOMERS AND OTHER SOURCES

The Company's revenue breakdown is as follows:

	2019	2018
	\$	\$
Revenue from contracts with customers		
Power recovery and distribution		
Residential service (1)	357,161	339,947
General service (2)	658,205	628,599
Large users (3)	72,879	69,887
Other		
Service work related to distribution operations	9,854	6,510
Pole attachment and duct rentals	4,454	4,440
Capital contributions from customers amortized to revenue	2,048	1,555
Account-related charges	3,048	3,303
Shared service agreements and miscellaneous	4,049	4,005
	1,111,698	1,058,246
Revenue from other sources		
Other		
Investment property rentals	820	904
Capital contributions from developers amortized to revenue	1,719	1,395
	1,114,237	1,060,545

⁽¹⁾ Residential service means a service that is for domestic or household purposes, including single family or individually metered multifamily units and seasonal occupancy.

⁽²⁾ General service means a service supplied to premises other than those receiving Residential Service and Large Users and typically includes small businesses and bulk-metered multi-unit residential establishments. This service is provided to customers with a monthly peak demand of less than 5,000 kW averaged over a twelve-month period.

⁽³⁾ Large users means a service provided to a customer with a monthly peak demand of 5,000 kW or greater averaged over a twelve-month period.

Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

19. OPERATING COSTS

	2019	2018
	\$	\$
Salaries, wages and benefits	74,856	77,285
Contracted services - distribution system maintenance	11,300	10,828
Contracted services - customer owned plant	15,669	19,340
Other electricity distribution costs	9,570	8,331
Other general and administrative expenses	30,797	31,728
Loss (gain) on disposals of property, plant and equipment	35	(256)
Capital recovery	(30,637)	(31,488)
	111,590	115,768

20. FINANCING COSTS

	2019 \$	2018 \$
Long-term interest	22,732	21,374
Short-term interest and fees	2,102	881
Less: capitalized borrowing costs	(2,631)	(2,496)
	22,203	19,759

21. INCOME TAXES

Income tax expense recognized in net income comprises the following:

	2019 \$	2018 \$
Current tax expense		
Current income tax expense	1,311	4,689
Deferred tax expense		
Origination and reversal of temporary differences	12,802	8,629
Income tax expense recognized in net income	14,113	13,318

Income tax expense recognized in other comprehensive income comprises the following:

	2019	2018
	\$	\$
Income tax effect of actuarial (loss) gain on defined benefit obligations	(549)	380

Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

21. INCOME TAXES [CONTINUED]

The provision for income taxes differs from the amount that would have been recorded using the combined Canadian federal and Ontario statutory income tax rates. A reconciliation between the statutory and effective tax rates is provided as follows:

	2019	2018
	\$	\$
Federal and Ontario statutory income tax rate	26.50 %	26.50 %
Income before income taxes	51,813	50,477
Income taxes at statutory rate	13,730	13,376
Increase (decrease) in income taxes resulting from:		
Permanent differences	(62)	48
Other	445	(106)
	14,113	13,318
Effective income tax rate	27.24 %	26.38 %

The Company, as a rate-regulated enterprise, can recognize deferred income tax assets and liabilities and related regulatory balances for the amount of deferred income taxes expected to be refunded to, or recovered from, customers in future electricity rates.

Significant components of the Company's deferred income liability are as follows:

	2019	2018
	\$	\$
Property, plant and equipment and intangible assets	(43,874)	(30,602)
Employee future benefits	5,193	4,459
Other temporary differences	622	337
	(38,059)	(25,806)

Movements in the deferred income tax (liability) asset during the year were as follows:

	2019 \$	2018 \$
Deferred tax, beginning of year	(25,806)	(16,797)
Recognized in net income	(12,802)	(8,629)
Recognized in OCI related to employee future benefits	549	(380)
Deferred tax, end of year	(38,059)	(25,806)

The Company's regulatory deferral account debit balance for the amounts of deferred income taxes expected to be refunded/ (collected) to/from customers in future electricity rates is \$38,059 [2018 – \$25,806].

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Hydro Ottawa Limited

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars]

22. CHANGES IN NON-CASH WORKING CAPITAL AND OTHER OPERATING BALANCES

	2019	2018
	\$	\$
Accounts receivable	(16,876)	16,306
Prepaid expenses	(1,737)	(756)
Accounts payable and accrued liabilities	10,957	(2,971)
Net change in accruals related to property, plant and equipment	8,633	2,829
Net change in accruals related to intangible assets	(4,800)	58
Customer deposits in accounts receivable	-	(14,586)
	(3,823)	880

23. CONTINGENT LIABILITIES

Purchasers of electricity in Ontario including the Company, through the Independent Electricity System Operator ['IESO'], are required to provide security to mitigate the risk of their default based on their expected activity in the market. The IESO could draw on these guarantees if the Company fails to make a payment required by a default notice issued by the IESO. A prudential support obligation is calculated based upon a default protection amount and the distributor's trading limit less a reduction for the distributor's credit rating. As at December 31, 2019, the Company had drawn standby letters of credit in the amount of \$10,000 [December 31, 2018 – \$10,000] against its credit facility to cover its prudential support obligation.

The Company participates with other electrical utilities in Ontario in an agreement to exchange reciprocal contracts of indemnity through the Municipal Electrical Association Reciprocal Insurance Exchange. The Company is liable for additional assessments to the extent premiums collected and reserves established are not sufficient to cover the cost of claims and costs incurred. If any additional assessments were required in the future, their cost would be charged to income in the year during which they occur.

The Company is party to connection and cost recovery agreements with HONI as described in Note 8. Each of the Company's CCRAs has a term of 25 years. To the extent that the cost of the project is not recoverable from future transformation connection revenues, the Company is obligated to pay a capital contribution equal to the difference between these revenues and the construction costs allocated to the Company. These agreements require periodic reviews whereby a comparison of actual to forecasted load is conducted, and a true-up calculation performed. When a true-up calculation shows the Company's actual load for the past period and updated load forecast for the future period are lower than the initial load, the Company is obligated to make up this shortfall. When the Company's actual load and updated load forecast are higher than the initial load, the Company is entitled to a rebate. True-up calculations are made in years 5 and 10 and in year 15 if the difference between the actual incremental load and initial load at the end of year 10 is greater than 20%.

Various lawsuits have been filed against the Company for incidents that arose in the ordinary course of business. In the opinion of management, the outcomes of the lawsuits, now pending, are neither determinable nor material. Should any loss result from the resolution of these claims, such losses would be claimed through the Company's insurance carrier, with any unrecoverable amounts charged to income in the year of resolution.

24. COMMITMENTS

The Company has \$122,564 in total open commitments for 2020 to 2026. This includes commitments relating to a call centre service agreement, construction projects, facilities, and overhead and underground services.

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars] Hydro Ottawa Limited EB-2019-0261 Exhibit 1 Tab 3 Schedule 1 Attachment C UPDATED May 5, 2020 Page 40 of 41

25. RELATED PARTY TRANSACTIONS

Transactions with related parties occur in the normal course of business, and are transacted at the amount of consideration determined and agreed to by the related parties. Trade amounts due from and to related parties are non-interest bearing, result from normal operations and are due within one year.

(a) Transactions with ultimate shareholder and its subsidiaries

During the year, the Company earned revenue from the sale of electricity to the City of Ottawa and its subsidiaries, which is billed at prices and terms approved by the OEB, and earned other revenue totaling \$455 [2018 – \$387]. The Company also received \$4,268 [2018 – \$3,580] in contributions relating to the upgrade and/or expansion of the Company's existing electricity distribution infrastructure.

The Company incurred \$2,855 [2018 – \$2,433] in property taxes and \$1,002 [2018 – \$2,711] in conservation and demand management rebate costs, and purchased \$794 [2018 – \$634] in fuel, permits and other services during the year, which is included in operating costs. The Company also incurred \$504 [2018 – \$269] in building permit costs and development charges, which are included in property, plant and equipment.

At December 31, 2019, the Company's accounts receivable and customer deposits include \$8,873 [December 31, 2018 – \$7,473] and \$1,053 [December 31, 2018 – \$652], respectively, while the Company's accounts payable and accrued liabilities include \$125 [December 31, 2018 – \$54] due to the City of Ottawa and its subsidiaries.

(b) Transactions with parent

During the year, the Company earned revenue of \$1,209 [2018 – \$1,242] relating to the provision of administrative and corporate services and interest charges.

The Company incurred \$3,074 [2018 – \$3,315] in operating costs related to the purchase of administrative and corporate support services that includes compensation for certain key management personnel, and \$2,088 [2018 – \$881] in short-term financing costs. The Company also purchased power of \$20 [2018 – \$38].

At December 31, 2019, the Company's accounts payable and accrued liabilities include \$2,291 [December 31, 2018 – \$414] due in respect of the transactions described.

The Company incurred \$22,732 [2018 – \$21,374] in financing costs during the year on its notes payable to Hydro Ottawa Holding Inc. described in Note 14 of these financial statements.

(c) Transactions with other related parties

During the year, the Company earned revenue from the sale of electricity to other related parties, which is billed at prices and terms approved by the OEB, and earned other revenue of \$3,652 [2018 – \$3,012]. The Company also received \$4,019 [2018 – \$691] in contributions relating to the upgrade and/or expansion of the Company's existing electricity distribution infrastructure. During the year, the Company purchased power of \$4,942 [2018 – \$6,566], and incurred \$534 [2018 – \$362] in operating costs.

In 2019, the Company sold vacant land to a related party for cash proceeds of \$1,827, as described in Note 7.

At December 31, 2019, the Company's accounts receivable include \$454 [December 31, 2018 – \$522] due in respect of the transactions above while accounts payable and accrued liabilities include \$2,811 [December 31, 2018 – \$2,320] due to other related parties.

Notes to the Financial Statements Year ended December 31, 2019 [in thousands of Canadian dollars] Hydro Ottawa Limited EB-2019-0261 Exhibit 1 Tab 3 Schedule 1 Attachment C UPDATED May 5, 2020 Page 41 of 41

26. COMPARATIVE FIGURES

In certain instances, the 2018 information presented for comparative purposes has been reclassified to conform to the financial statement presentation adopted for the current year.

27. SUBSEQUENT EVENT

Subsequent to December 31, 2019 the COVID-19 outbreak was declared a pandemic by the World Health Organization. This has resulted in governments worldwide, including the Canadian and Ontario governments, enacting emergency measures to combat the spread of the virus. These measures, which include the implementation of travel bans, self-quarantine periods and social distancing, have caused material disruption to businesses globally and in Ontario resulting in an economic slowdown. Governments and central banks have reacted with significant monetary and fiscal interventions designed to stabilize economic conditions however the success of these interventions is not currently determinable. The current challenging economic climate is having an adverse impact on cash flows, working capital levels and/or debt balances, which may also have a direct impact on the Company's operating results and financial position in the short term, and into the future. The situation is dynamic and the ultimate duration and magnitude of the impact on the economy and the financial effect on our business is not known at this time.



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UPDATED RATE BASE OVERVIEW

2

1

3 1. INTRODUCTION

4 This Schedule provides an overview of Hydro Ottawa's distribution rate base and a discussion 5 of year-over-year variances.

6

- 7 In accordance with the OEB's Chapter 2 Filing Requirements for Electricity Distribution Rate
- 8 Applications, as updated on July 12, 2018 and amended on July 15, 2019, the rate base used to
- 9 determine the revenue requirement for the Test Years should be presented. This Schedule
- 10 provides yearly information on Hydro Ottawa's rate base, including information on forecast net
- 11 fixed assets, calculated on a mid-year average basis, along with working capital allowance
- 12 ("WCA"). Net fixed assets are gross assets in service minus accumulated amortization and
- 13 contributed capital.

14

- 15 The capital expenditure plan for the 2021-2025 period is outlined in UPDATED Exhibit 2-4-1:
- 16 Capital Expenditure Summary, Exhibit 2-4-2: Capital Expenditure Details, and Exhibit 2-4-3:
- 17 Distribution System Plan. Details regarding WCA can be found in UPDATED Exhibit 2-3-1:
- 18 Working Capital Requirement.

19

20 2. SUMMARY OF 2016-2020 APPROVED AND ACTUAL RATE BASE

- 21 Table 1 below shows Hydro Ottawa's approved rate base values for 2016-2020, as per the
- 22 Approved Settlement Agreement governing the utility's 2016-2020 rate term. Table 1 provides
- 23 the opening, closing, and average balances for gross assets and accumulated depreciation. The
- 24 table further provides the closing balance for net fixed assets and Hydro Ottawa's WCA.

25

- 26 Amounts in Table 1 do not include fixed assets related to items that have been removed from
- 27 base rates, and recorded into Regulatory Accounts, as per the Approved Settlement
- 28 Agreement. These items are the following: the utility's new administrative and operations

²⁹ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).



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- 1 facilities, as described in **UPDATED** Attachment 2-1-1(A): New Administrative Office and
- 2 Operations Facilities; and Connection Cost Recovery Agreement ("CCRA") payments, as
- 3 described in UPDATED Exhibit 9-1-3: Group 2 Accounts.

Table 1 – Summary of Approved 2016-2020 Rate Base With Adjustments (\$'000s)

	2016	2017	2018	2019	2020
Opening Gross Assets	\$810,428	\$882,472	\$962,598	\$1,050,061	\$1,111,912
Closing Gross Assets	\$882,472	\$962,598	\$1,050,061	\$1,111,912	\$1,218,811
Average Gross Assets	\$846,450	\$922,535	\$1,006,329	\$1,080,986	\$1,165,362
Opening Accumulated Depreciation	\$(70,764)	\$(110,130)	\$(152,675)	\$(198,050)	\$(245,195)
Closing Accumulated Depreciation	\$(110,130)	\$(152,675)	\$(198,050)	\$(245,195)	\$(293,565)
Average Accumulated Depreciation	\$(90,447)	\$(131,402)	\$(175,363)	\$(221,623)	\$(269,380)
Opening Net Book Value	\$739,664	\$772,342	\$809,923	\$852,011	\$866,717
Closing Net Book Value	\$772,342	\$809,923	\$852,011	\$866,717	\$925,246
Average Net Book Value	\$756,003	\$791,132	\$830,967	\$859,364	\$895,981
Working Capital Allowance	\$77,116	\$78,617	\$81,882	\$76,760	77,820
RATE BASE ²	\$833,119	\$869,749	\$912,849	\$936,124	\$973,801

7 To facilitate comparisons with Table 1, the updated version of Table 2 below shows Hydro

- 8 Ottawa's approved 2016-2020 rate base without adjustments for the inclusion of the new
- 9 administrative and operations facilities and new CCRA.

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6

^{10 &}lt;sup>2</sup> Totals may not sum due to rounding.



1 2

3

Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 3 of 19

Table 2 – AS ORIGINALLY SUBMITTED – Summary of 2016-2020 Rate Base Without Adjustments (\$'000s)

	Approved	Historical Years			Bridge Years		
	2016	2016	2017	2018	2019	2020	
Opening Gross Assets	\$810,428	\$822,731	\$902,630	\$992,882	\$1,089,257	\$1,177,108	
Closing Gross Assets	\$882,472	\$902,630	\$992,882	\$1,089,257	\$1,177,108	\$1,257,217	
Average Gross Assets	\$846,450	\$862,681	\$947,756	\$1,041,070	\$1,133,182	\$1,217,162	
Opening Accumulated Depreciation	\$(70,764)	\$(71,580)	\$(111,437)	\$(148,273)	\$(193,925)	\$(232,568)	
Closing Accumulated Depreciation	\$(110,130)	\$(111,437)	\$(148,273)	\$(193,925)	\$(232,568)	\$(279,866)	
Average Accumulated Depreciation	\$(90,447)	\$(91,509)	\$(129,855)	\$(171,099)	\$(213,247)	\$(256,217)	
Opening Net Book Value	739,664	751,151	791,193	844,609	895,332	944,540	
Closing Net Book Value	\$772,342	\$791,193	\$844,609	\$895,332	\$944,539	\$977,351	
Average Net Book Value	\$756,003	\$771,172	\$817,901	\$869,971	\$919,936	\$960,945	
Working Capital Allowance	\$77,116	\$82,676	\$75,590	\$74,431	\$76,221	\$77,789	
RATE BASE (net of exclusions) ³	\$833,119	\$853,848	\$893,491	\$944,402	\$996,157	\$1,038,734	

4 Table 2 – UPDATED FOR 2019 ACTUALS – Summary of 2016-2020 Rate Base Without Adjustments (\$'000s) 5

	Approved	Historical Years				Bridge Years
	2016	2016	2017	2018	2019	2020
Opening Gross Assets	\$810,428	\$822,731	\$902,630	\$992,882	\$1,089,257	\$1,182,029
Closing Gross Assets	\$882,472	\$902,630	\$992,882	\$1,089,257	\$1,182,029	\$1,263,967
Average Gross Assets	\$846,450	\$862,681	\$947,756	\$1,041,070	\$1,135,643	\$1,222,998
Opening Accumulated Depreciation	\$(70,764)	\$(71,580)	\$(111,437)	\$(148,273)	\$(193,925)	\$(225,440)
Closing Accumulated Depreciation	\$(110,130)	\$(111,437)	\$(148,273)	\$(193,925)	\$(225,440)	\$(272,718)
Average Accumulated Depreciation	\$(90,447)	\$(91,509)	\$(129,855)	\$(171,099)	\$(209,682)	\$(249,079)
Opening Net Book Value	\$739,664	\$751,151	\$791,193	\$844,609	\$895,332	\$956,589
Closing Net Book Value	\$772,342	\$791,193	\$844,609	\$895,332	\$956,589	\$991,249
Average Net Book Value	\$756,003	\$771,172	\$817,901	\$869,971	\$925,961	\$973,919
Working Capital Allowance	\$77,116	\$82,676	\$75,590	\$74,431	\$73,638	\$77,997
RATE BASE (net of exclusions) ⁴	\$833,119	\$853,848	\$893,491	\$944,402	\$999,599	\$1,051,916

 $^{^6\ ^3}$ Totals may not sum due to rounding. $^7\ ^4$ Totals may not sum due to rounding.



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- 1 The updated version of Table 3 below reconciles Hydro Ottawa's approved, Historical Year, and
- 2 Bridge Year rate base for 2016-2020, adjusted to include the new administrative and operations
- 3 facilities and new CCRA. UPDATED Appendix 2-BA includes the fixed assets related to items
- 4 held outside base rates (see **UPDATED** Attachments 2-2-1(A) through (J)). The revenue
- 5 requirement related to the aforementioned assets is approved to be recorded in regulatory
- 6 assets during the 2016-2020 period. Hydro Ottawa is requesting to place these assets (i.e. new
- 7 facilities and new CCRA) into rate base at their net book value in the 2021 Test Year.



1

Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 5 of 19

Table 3 – AS ORIGINALLY SUBMITTED – Summary of Adjustments to Rate Base

2 2016-2020 (\$'000s)

	Approved	Hi	storical Yea	rs	Bridge	Years
	2016	2016	2017	2018	2019	2020
	Gros	s Assets				
Opening Gross Assets - net of exclusions	\$810,428	\$822,731	\$902,630	\$992,882	\$1,089,257	\$1,177,108
Excluded Item: New Facilities	\$19,493	\$19,493	\$19,493	\$19,697	\$19,693	\$99,543
Excluded Item: New CCRA	\$0	\$0	\$0	\$706	\$3,381	\$13,258
Adjusted Opening Gross Assets⁵	\$829,921	\$842,224	\$922,123	\$1,013,285	\$1,112,335	\$1,289,909
Closing Gross Assets - net of exclusions	\$882,472	\$902,630	\$992,882	\$1,089,257	\$1,177,108	\$1,257,217
Excluded Item: New Facilities	\$19,493	\$19,493	\$19,697	\$19,697	\$99,543	\$99,543
Excluded Item: New CCRA	\$0	\$0	\$706	\$3,381	\$13,258	\$14,169
Adjusted Closing Gross Assets	\$901,965	\$922,123	\$1,013,285	\$1,112,335	\$1,289,909	\$1,370,929
	Accumulate	d Depreciat	ion			
Opening Accumulated Depreciation - net of exclusions	\$(70,764)	\$(71,580)	\$(111,437)	\$(148,273)	\$(193,925)	\$(232,568)
Excluded Item: New Facilities	\$0	\$0	\$0	\$0	\$0	\$1,792
Excluded Item: New CCRA	\$0	\$0	\$0	\$0	\$36	\$162
Adjusted Opening Accumulated Depreciation	\$(70,764)	\$(71,580)	\$(111,437)	\$(148,273)	\$(193,961)	\$(234,522)
Net Closing Accumulated Depreciation - net of exclusions	\$(110,130)	\$(111,437)	\$(148,273)	\$(193,925)	\$(232,568)	\$(279,866)
Excluded Item: New Facilities	\$0	\$0	\$0	\$0	\$(1,792)	\$(4,452)
Excluded Item: New CCRA	\$0	\$0	\$0	\$36	\$(162)	\$(459)
Adjusted Closing Accumulated Depreciation	\$(110,130)	\$(111,437)	\$(148,273)	\$(193,961)	\$(234,522)	\$(284,777)
	Adjusted N	et Book Val	ue			
Adjusted Opening Net Book Value	\$759,157	\$770,644	\$810,686	\$865,012	\$918,374	\$1,055,387
Adjusted Closing Net Book Value	\$791,835	\$810,686	\$865,012	\$918,374	\$1,055,387	\$1,086,152
Adjusted Average Net Book Value	\$775,496	\$790,665	\$837,849	\$891,693	\$986,881	\$1,070,769
Working Capital Allowance	\$77,116	\$82,676	\$75,590	\$74,431	\$76,221	\$77,789
ADJUSTED RATE BASE ⁶	\$852,612	\$873,341	\$913,439	\$966,124	\$1,063,102	\$1,148,558

⁴ ⁵ This aligns with UPDATED Attachments 2-2-1(A) through (E): OEB Appendices 2-BA - Fixed Asset Continuity

⁵ Schedules for the years 2016 through 2025, and includes new facilities and new CCRA.
6 Totals may not sum due to rounding.



1 2 Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 6 of 19

Table 3 – UPDATED FOR 2019 ACTUALS – Summary of Adjustments to Rate Base

2016-2020 (\$'000s)

	Approved		Historical Years			
	2016	2016	2017	2018	2019	2020
	Gross	s Assets				
Opening Gross Assets - net of exclusions	\$810,428	\$822,731	\$902,630	\$992,882	\$1,089,257	\$1,182,029
Excluded Item: New Facilities	\$19,493	\$19,493	\$19,493	\$19,697	\$19,697	\$99,545
Excluded Item: New CCRA	\$0	\$0	\$0	\$706	\$3,381	\$12,892
Adjusted Opening Gross Assets ⁷	\$829,921	\$842,224	\$922,123	\$1,013,285	\$1,112,335	\$1,294,466
Closing Gross Assets - net of exclusions	\$882,472	\$902,630	\$992,882	\$1,089,257	\$1,182,029	\$1,263,967
Excluded Item: New Facilities	\$19,493	\$19,493	\$19,697	\$19,697	\$99,545	\$99,545
Excluded Item: New CCRA	\$0	\$0	\$706	\$3,381	\$12,892	\$13,802
Adjusted Closing Gross Assets	\$901,965	\$922,123	\$1,013,285	\$1,112,335	\$1,294,466	\$1,377,314
	Accumulate	d Depreciat	ion			
Opening Accumulated Depreciation - net of exclusions	\$(70,764)	\$(71,580)	\$(111,437)	\$(148,273)	\$(193,925)	\$(225,440)
Excluded Item: New Facilities	\$0	\$0	\$0	\$0	\$0	\$(1,778)
Excluded Item: New CCRA	\$0	\$0	\$0	\$0	\$36	\$(216)
Adjusted Opening Accumulated Depreciation	\$(70,764)	\$(71,580)	\$(111,437)	\$(148,273)	\$(193,889)	\$(227,434)
Net Closing Accumulated Depreciation - net of exclusions	\$(110,130)	\$(111,437)	\$(148,273)	\$(193,925)	\$(225,440)	\$(272,718)
Excluded Item: New Facilities	\$0	\$0	\$0	\$0	\$(1,778)	\$(4,438)
Excluded Item: New CCRA	\$0	\$0	\$0	\$36	\$(216)	\$(513)
Adjusted Closing Accumulated Depreciation	\$(110,130)	\$(111,437)	\$(148,273)	\$(193,961)	\$(227,434)	\$(277,670)
	Adjusted N	et Book Val	ue			
Adjusted Opening Net Book Value	\$759,157	\$770,644	\$810,686	\$865,012	\$918,374	\$1,067,032
Adjusted Closing Net Book Value	\$791,835	\$810,686	\$865,012	\$918,374	\$1,067,032	\$1,099,644
Adjusted Average Net Book Value	\$775,496	\$790,665	\$837,849	\$891,693	\$992,703	\$1,083,338
Working Capital Allowance	\$77,116	\$82,676	\$75,590	\$74,431	\$73,638	\$77,997
ADJUSTED RATE BASE ⁸	\$852,612	\$873,341	\$913,439	\$966,124	\$1,066,341	\$1,161,335

³ This aligns with Attachments UPDATED 2-2-1(A) through (E): OEB Appendices 2-BA - Fixed Asset Continuity

⁴ Schedules for the years 2016 through 2025, and includes new facilities and new CCRA.

8 Totals may not sum due to rounding.



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1 The difference between the closing 2020 gross assets after accounting for 2019 actuals in the

2 updated version of Table 2 above and the opening 2021 gross assets in Table 4, as updated

³ below, relate to adding back into rate base assets whose revenue requirement was recorded

4 into a Regulatory Account in 2016-2020.

5

6

AS ORIGINALLY SUBMITTED

2020 Closing Gross Assets	\$1,257,217
New Administrative Office & Operations Facilities	\$99,543
CCRA	\$14,169
2021 Opening Gross Assets	\$1,370,929

7

UPDATED FOR 2019 ACTUALS

2020 Closing Gross Assets	\$1,263,967
New Administrative Office & Operations Facilities	\$99,545
CCRA	\$13,802
2021 Opening Gross Assets	\$1,377,314

9

Similarly, after accounting for 2019 actuals, the difference between the closing 2020 accumulated depreciation in the updated version of Table 2 above and the opening 2021 accumulated depreciation in Table 4, as updated below, also relates to adding back into rate base assets whose revenue requirement was recorded into a Regulatory Account in 2016-2020.

1415

AS ORIGINALLY SUBMITTED

2020 Closing Accumulated Depreciation	\$279,866
New Administrative Office & Operations Facilities	\$4,452
CCRA	\$459
2021 Opening Accumulated Depreciation	\$284,777



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1

UPDATED FOR 2019 ACTUALS

2020 Closing Accumulated Depreciation	\$272,719
New Administrative Office & Operations Facilities	\$4,438
CCRA	\$513
2021 Opening Accumulated Depreciation	\$277,670

2

- 3 Hydro Ottawa's previously-owned facilities (Albion land and building, and Merivale land and
- 4 building) were disposed of in September 2019 and November 2019, respectively. Those
- 5 previously-owned facilities' net book value was therefore removed from rate base as of the
- 6 applicable months.

7

8 3. SUMMARY OF PROPOSED 2021-2025 RATE BASE

9 Table 4, as updated below, provides a summary of Hydro Ottawa's proposed rate base for the 10 2021-2025 rate period.

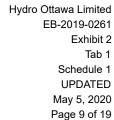




Table 4 – AS ORIGINALLY SUBMITTED – Summary of 2021-2025 Rate Base (\$'000s)⁹

	Test Years							
	2021	2022	2023	2024	2025			
Opening Gross Assets	\$1,370,929	\$1,517,861	\$1,634,839	\$1,710,177	\$1,790,724			
Closing Gross Assets	\$1,517,861	\$1,634,839	\$1,710,177	\$1,790,724	\$1,911,057			
Average Gross Assets	\$1,444,395	\$1,576,350	\$1,672,508	\$1,750,450	\$1,850,891			
Opening Accumulated Depreciation	\$(284,777)	\$(334,623)	\$(389,254)	\$(446,435)	\$(505,659)			
Closing Accumulated Depreciation	\$(334,623)	\$(389,254)	\$(446,435)	\$(505,659)	\$(568,753)			
Average Accumulated Depreciation	\$(309,700)	\$(361,938)	\$(417,845)	\$(476,047)	\$(537,206)			
Opening Net Book Value	\$1,086,152	\$1,183,238	\$1,245,585	\$1,263,741	\$1,285,065			
Closing Net Book Value	\$1,183,238	\$1,245,585	\$1,263,741	\$1,285,065	\$1,342,304			
Average Net Fixed Assets	\$1,134,695	\$1,214,412	\$1,254,663	\$1,274,403	\$1,313,685			
Working Capital Allowance	\$83,965	\$89,510	\$94,956	\$102,402	\$106,078			
RATE BASE ¹⁰	\$1,218,659	\$1,303,922	\$1,349,619	\$1,376,805	\$1,419,763			

3 Table 4 - UPDATED FOR 2019 ACTUALS - Summary of 2021-2025 Rate Base (\$'000s)11

	Test Years							
	2021	2022	2023	2024	2025			
Opening Gross Assets	\$1,377,314	\$1,519,485	\$1,640,374	\$1,715,712	\$1,796,259			
Closing Gross Assets	\$1,519,485	\$1,640,374	\$1,715,712	\$1,796,259	\$1,916,592			
Average Gross Assets	\$1,448,400	\$1,579,930	\$1,678,043	\$1,755,985	\$1,856,426			
Opening Accumulated Depreciation	\$(277,670)	\$(327,398)	\$(381,867)	\$(438,922)	\$(498,020)			
Closing Accumulated Depreciation	\$(327,398)	\$(381,867)	\$(438,922)	\$(498,020)	\$(560,987)			
Average Accumulated Depreciation	\$(302,534)	\$(354,633)	\$(410,395)	\$(468,471)	\$(529,503)			
Opening Net Book Value	\$1,099,644	\$1,192,087	\$1,258,507	\$1,276,789	\$1,298,240			
Closing Net Book Value	\$1,192,087	\$1,258,507	\$1,276,789	\$1,298,240	\$1,355,605			
Average Net Fixed Assets	\$1,145,866	\$1,225,297	\$1,267,648	\$1,287,515	\$1,326,923			
Working Capital Allowance	\$84,870	\$90,411	\$95,934	\$103,375	\$107,049			
RATE BASE ¹²	\$1,230,736	\$1,315,708	\$1,363,582	\$1,390,890	\$1,433,972			

⁴ ⁹ Figures in Table 4 include Facilities and CCRA.

2

^{5 10} Totals may not sum due to rounding.

^{6 &}lt;sup>11</sup> Figures in the updated version of Table 4 include Facilities and CCRA.

^{7 12} Totals may not sum due to rounding.



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1 4. 2016-2020 RATE BASE VARIANCES - APPROVED VS. ACTUALS

- 2 Table 5, as updated below, shows the variances between the OEB-approved rate base amounts
- 3 (Table 1 above) and the Historical Year and Bridge Year amounts (Table 2, as updated above),
- 4 without adjustments to rate base for inclusions of assets that are requested for inclusion in rate
- 5 base as of January 1, 2021.

Table 5 – AS ORIGINALLY SUBMITTED – Variances in 2016-2020 Rate Base Without Adjustments - OEB-Approved vs. Historical and Bridge Year Amounts (\$'000s)

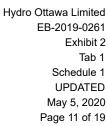
		Actual	Bridge		
	2016	2017	2018	2019	2020
Opening Gross Assets	\$12,303	\$20,158	\$30,284	\$39,196	\$65,196
Closing Gross Assets	\$20,158	\$30,284	\$39,196	\$65,196	\$38,406
Average Gross Assets	\$16,231	\$25,221	\$34,740	\$52,196	\$51,801
Opening Accumulated Depreciation	\$(816)	\$(1,307)	\$4,402	\$4,125	\$12,627
Closing Accumulated Depreciation	\$(1,307)	\$4,402	\$4,125	\$12,627	\$13,699
Average Accumulated Depreciation	\$(1,062)	\$1,548	\$4,264	\$8,376	\$13,163
Average Net Fixed Assets	\$15,169	\$26,769	\$39,004	\$60,572	\$64,964
Working Capital Allowance	\$5,560	\$(3,027)	\$(7,452)	\$(539)	\$(31)
RATE BASE ¹³	\$20,729	\$23,742	\$31,553	\$60,033	\$64,933

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^{10 &}lt;sup>13</sup> Totals may not sum due to rounding.





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Table 5 – UPDATED FOR 2019 ACTUALS – Variances in 2016-2020 Rate Base Without Adjustments - OEB-Approved vs. Historical and Bridge Year Amounts (\$'000s)

		Actual				
	2016	2017	2018	2019	2020	
Opening Gross Assets	\$12,303	\$20,158	\$30,284	\$39,196	\$70,117	
Closing Gross Assets	\$20,158	\$30,284	\$39,196	\$70,117	\$45,156	
Average Gross Assets	\$16,231	\$25,221	\$34,740	\$54,656	\$57,636	
Opening Accumulated Depreciation	\$(816)	\$(1,307)	\$4,402	\$4,125	\$19,755	
Closing Accumulated Depreciation	\$(1,307)	\$4,402	\$4,125	\$19,755	\$20,847	
Average Accumulated Depreciation	\$(1,062)	\$1,548	\$4,264	\$11,940	\$20,301	
Average Net Fixed Assets	\$15,169	\$26,769	\$39,004	\$66,597	\$77,937	
Working Capital Allowance	\$5,560	\$(3,027)	\$(7,452)	\$(3,122)	\$176	
RATE BASE ¹⁴	\$20,729	\$23,742	\$31,553	\$63,475	\$78,115	

4 The following section provides high-level rate base variance explanations. For additional details

5 regarding capital variances, please refer to **UPDATED** Exhibit 2-4-1: Capital Expenditure

6 Summary or Attachment 2-4-3(E): Material Investments. For more information on Capital

7 Additions, please see **UPDATED** Exhibit 2-2-1: Assets - Property, Plant & Equipment Continuity

8 Schedule. In addition, for details related to WCA, please see UPDATED Exhibit 2-3-1: Working

9 Capital Requirement.

11 4.1. 2016 ACTUAL vs. 2016 APPROVED

- Hydro Ottawa's average net fixed assets were \$15.2M higher than the OEB-approved amounts. This was largely due to increases in emergency renewal work related to severe storms, increased spending in the Corrective Renewal Program, and CCRA true-up payments to Hydro One Networks Inc. ("HONI") related to the Hinchey substation.
- An additional \$5.6M in WCA was required in 2016 as a result of higher Power Supply Expenses than estimated, mainly in relation to the commodity and Global Adjustment expense. This was partially offset by a lower Wholesale cost than estimated.

²⁰ ¹⁴ Totals may not sum due to rounding.



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1 4.2. 2017 ACTUAL vs. 2017 APPROVED

- Hydro Ottawa's average net fixed assets for 2017 were \$26.8M higher than approved amounts due, in part, to the previous year's balance and an increase in 2017 in customer-driven demand work related to the following: residential and commercial infills and/or subdivisions; the City of Ottawa's Light Rail Transit project; and unforecasted embedded generation nameplate credit. In addition, a new Human Resources software module was added to the enterprise resource planning system upgrade project, which increased its overall project cost.
- In 2017, \$3.0M less WCA was required mainly as a result of lower Power Supply Expenses than estimated. The larger than estimated Global Adjustment expense was offset by the lower than anticipated Commodity and Wholesale expense.

13 **4.3. 2018 ACTUAL vs. 2018 APPROVED**

- Hydro Ottawa's average net fixed assets for 2018 were \$39.0M higher than approved amounts due, in large part, to the previous year's balance, emergency work from three severe storms (including the September 2018 tornadoes), and a sustained increase in System Access demands, including from museums and large industrial complexes.
- In 2018, \$7.4M less WCA was required as a result of a lower Power Supply Expenses than estimated. With the exception of the Transmission Connection charge, which had a negative variance, all other charges were lower than anticipated or very close to the estimate.

23 **4.4. 2019 BRIDGE YEAR vs. 2019 APPROVED**

As submitted in the utility's original Application, Hydro Ottawa's average net fixed assets for 2019 are set to be \$60.6M higher than approved amounts due, in part, to the previous year's balance and the capitalization of three large substation projects (Merivale DS, Overbrook DS, and Richmond South DS). For more details on these projects, please refer to Exhibit 2-4-3: Distribution System Plan.



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• For 2019, the WCA is set to be mainly in-line with approved amounts, as Hydro Ottawa has maintained the original estimate of Power Supply Expenses from the 2016-2020 rate application for 2019. With the goal of being consistent with the working capital rate used in the Test Years, Hydro Ottawa has used 7.5% as the working capital rate percentage for the 2019 Bridge Year.

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2019 ACTUAL vs. 2019 APPROVED

- Accounting for 2019 actuals, Hydro Ottawa's average net fixed assets for 2019 are \$66.6M higher than the 2019 approved. The \$6.0M variance from the 2019 forecast to the 2019 actual net fixed assets is mainly due to the increase in system access in residential subdivisions.
- In 2019, the main driver for \$3.1M less WCA was lower Power Supply Expenses than estimated. When accounting for 2019 actuals, Hydro Ottawa used the OEB-approved 7.55% for the working capital percentage rate for 2019.

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16 4.5. 2020 BRIDGE YEAR vs. 2020 APPROVED

- Hydro Ottawa's average net fixed assets for the 2020 Bridge Year is budgeted to be \$65.0M higher than the previously approved amount for 2020, largely as a result of overages in the previous years' balances.
- For 2020, the WCA is mainly in-line with approved amounts, as Hydro Ottawa has maintained the original estimate of Power Supply Expenses from the 2016-2020 rate application for 2020. With the goal of being consistent with the working capital rate used in the Test Years, Hydro Ottawa has used 7.5% as the working capital rate percentage for 2020 in the utility's original Application. To be consistent with the Approved Settlement Agreement, Hydro Ottawa has used the OEB approved 7.52% as the working capital percentage rate for the 2020 Bridge Year.



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1 5. 2016-2025 YEAR-OVER-YEAR RATE BASE VARIANCES

- 2 The updated version of Table 6 below provides the year-over-year change in rate base from
- 3 2016-2025. Further details for the annual changes are provided in the subsections which follow.

5 Table 6 – AS ORIGINALLY SUBMITTED – Year-over-Year Change in Rate Base (\$'000s)

	2017 vs. 2016	2018 vs. 2017	2019 vs. 2018	2020 vs. 2019	2021 vs. 2020	2022 vs. 2021	2023 vs. 2022	2024 vs. 2023	2025 vs. 2024
Opening Gross Assets	\$79,899	\$90,252	\$96,375	\$87,851	\$193,821	\$146,933	\$116,978	\$75,337	\$80,548
Closing Gross Assets	\$90,252	\$96,375	\$87,851	\$80,109	\$260,645	\$116,978	\$75,337	\$80,548	\$120,333
Average Gross Assets	\$85,076	\$93,314	\$92,113	\$83,980	\$227,233	\$131,955	\$96,158	\$77,943	\$100,440
Opening Accumulated Depreciation	\$(39,857)	\$(36,836)	\$(45,652)	\$(38,643)	\$(52,209)	\$(49,846)	\$(54,631)	\$(57,182)	\$(59,224)
Closing Accumulated Depreciation	\$(36,836)	\$(45,652)	\$(38,643)	\$(47,298)	\$(54,757)	\$(54,631)	\$(57,182)	\$(59,224)	\$(63,094)
Average Accumulated Depreciation	\$(38,347)	\$(41,244)	\$(42,148)	\$(42,971)	\$(53,483)	\$(52,238)	\$(55,906)	\$(58,203)	\$(61,159)
Average Net Fixed Assets	\$46,729	\$52,070	\$49,965	\$41,009	\$173,750	\$79,717	\$40,251	\$19,740	\$39,282
Working Capital Allowance	\$(7,086)	\$(1,159)	\$1,790	\$1,568	\$6,176	\$5,545	\$5,446	\$7,446	\$3,676
RATE BASE ¹⁵	\$39,643	\$50,911	\$51,755	\$42,577	\$179,926	\$85,262	\$45,697	\$27,186	\$42,958

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 $^{^{7}}$ Totals may not sum due to rounding.



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Table 6 – UPDATED FOR 2019 ACTUALS – Year-over-Year Change in Rate Base (\$'000s)

	2017 vs. 2016	2018 vs. 2017	2019 vs. 2018	2020 vs. 2019	2021 vs. 2020	2022 vs. 2021	2023 vs. 2022	2024 vs. 2023	2025 vs. 2024
Opening Gross Assets	\$79,899	\$90,252	\$96,375	\$92,772	\$195,285	\$142,172	\$120,889	\$75,337	\$80,548
Closing Gross Assets	\$90,252	\$96,375	\$92,772	\$81,938	\$255,519	\$120,889	\$75,337	\$80,548	\$120,333
Average Gross Assets	\$85,076	\$93,314	\$94,573	\$87,355	\$225,402	\$131,530	\$98,113	\$77,943	\$100,440
Opening Accumulated Depreciation	\$(39,857)	\$(36,836)	\$(45,652)	\$(31,515)	\$(52,230)	\$(49,728)	\$(54,469)	\$(57,055)	\$(59,097)
Closing Accumulated Depreciation	\$(36,836)	\$(45,652)	\$(31,515)	\$(47,279)	\$(54,680)	\$(54,469)	\$(57,055)	\$(59,097)	\$(62,967)
Average Accumulated Depreciation	\$(38,347)	\$(41,244)	\$(38,583)	\$(39,397)	\$(53,455)	\$(52,099)	\$(55,762)	\$(58,076)	\$(61,032)
Average Net Fixed Assets	\$46,729	\$52,070	\$55,990	\$47,958	\$171,947	\$79,432	\$42,351	\$19,866	\$39,408
Working Capital Allowance	\$(7,086)	\$(1,159)	\$ (793)	\$ 4,358	\$ 6,874	\$ 5,541	\$ 5,523	\$ 7,441	\$ 3,674
RATE BASE ¹⁶	\$39,643	\$50,911	\$ 55,197	\$ 52,317	\$ 178,820	\$ 84,972	\$ 47,874	\$ 27,308	\$ 43,082

3 5.1. 2017 ACTUAL vs. 2016 ACTUAL

- Hydro Ottawa's average net fixed assets for 2017 were \$46.7M higher than 2016 due to capital additions in 2017.
- In 2017, WCA was \$7.1M less than 2016 due to a decrease in Power Supply Expenses.

8 5.2. 2018 ACTUAL vs. 2017 ACTUAL

- Hydro Ottawa's average net fixed assets for 2018 were \$52.1M higher than 2017 due to
 capital additions in 2018.
- In 2018, WCA was \$1.2M less compared to 2017. This decrease was the result of lower
 Power Supply Expenses.

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^{13 &}lt;sup>16</sup> Totals may not sum due to rounding.



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1 5.3. 2019 BRIDGE YEAR vs. 2018 ACTUAL

- As submitted in the utility's original Application, Hydro Ottawa's average net fixed assets
 for 2019 are set to be \$50.0M higher than 2018 due to capital additions in 2019.
 - In 2019, WCA is likewise estimated to be \$1.8M more than 2018 due to an increase in Power Supply Expenses, as submitted in Hydro Ottawa's original Application.

2019 ACTUAL vs. 2018 ACTUAL

- Accounting for 2019 actuals, Hydro Ottawa's average net fixed assets for 2019 were \$56.0M higher than 2018 due to capital additions in 2019.
- In addition, WCA was \$0.8M less than 2018 mainly as a result of a lower approved WCA percentage.

13 **5.4. 2020 BRIDGE YEAR vs. 2019 BRIDGE YEAR**

- As submitted in the utility's original Application, Hydro Ottawa's average net fixed assets for 2020 are budgeted to be \$41.0M higher than 2019 due to capital additions in 2020.
- In 2020, WCA is likewise estimated to increase \$1.6M over 2019 due to anticipated increases in Power Supply Expenses, as submitted in Hydro Ottawa's original Application.

2020 BRIDGE YEAR vs. 2019 ACTUAL

- Hydro Ottawa's average net fixed assets for 2020 are budgeted to be \$48M higher than 2019 actual net fixed assets due to capital additions in 2020.
- In Bridge Year 2020, WCA is estimated to increase \$4.4M over 2019 actuals due to anticipated increases in Power Supply Expenses and Operations, Maintenance and Administration Expenses.

27 5.5. **2021 TEST YEAR vs. 2020 BRIDGE YEAR**

As originally submitted, Hydro Ottawa's average net fixed assets for 2021 are budgeted
 to be \$173.8M higher than 2020 due to capital additions in 2021. Accounting for 2019



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- actuals, however, the 2021 average net fixed assets are budgeted to be \$171.9M higher than 2020. These include \$50.0M in additions related to Cambrian Municipal Transformer Station ("MTS").¹⁷ In addition, the inclusion of adjustments to rate base of items that were previously held outside base rates (i.e. new facilities and new CCRA for 2016-2020 see section 2 above) is likewise planned, with these assets being added at their net book value in the 2021 Test Year.
 - In 2021, the WCA (as originally submitted) is estimated to increase \$6.2M over 2020 mainly due to increases in Power Supply Expenses. Based on 2019 actuals, the WCA is estimated to increase \$6.9M over 2020. For more information on WCA, please refer to UPDATED Exhibit 2-3-1: Working Capital Requirement.¹⁸

12 **5.6. 2022 TEST YEAR vs. 2021 TEST YEAR**

- As submitted by the utility in its original Application, Hydro Ottawa's average net fixed assets for 2022 are budgeted to be \$79.7M higher than 2021 due to capital additions in 2022. Based on 2019 actual net fixed assets, Hydro Ottawa's average net fixed assets for 2022 are budgeted to be \$79.4M higher than 2021. These additions include \$26.9M related to Cambrian MTS.
 - In 2022, the WCA is estimated to increase \$5.5M over 2021 mainly due to increases in Power Supply Expenses.

21 5.7. 2023 TEST YEAR vs. 2022 TEST YEAR

As submitted in the utility's original Application, Hydro Ottawa's average net fixed assets for 2023 are budgeted to be \$40.3M higher than 2022 due to capital additions in 2023.
 Based on 2019 actual net fixed assets, Hydro Ottawa's average net fixed assets for 2022 are budgeted to be \$42.4M higher than 2021.

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²⁶ For more information on Cambrian MTS, please see Attachment 2-4-3(E): Material Investments.

²⁷ ¹⁸ Please refer to UPDATED Exhibit 2-3-1: Working Capital Requirement for details related to WCA for all of the Test



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• In 2023, the WCA is estimated to increase \$5.4M over 2022 mainly due to increases in Power Supply Expenses. Accounting for 2019 actuals has resulted in a slight change in WCA. It is now estimated to increase \$5.5M over 2022.

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5 5.8. 2024 TEST YEAR vs. 2023 TEST YEAR

- As submitted in the utility's original Application, Hydro Ottawa's average net fixed assets for 2024 are budgeted to be \$19.7M higher than 2023 due to capital additions in 2024.
 Based on 2019 actual net fixed assets, Hydro Ottawa's average net fixed assets for 2024 are budgeted to be \$19.9M higher than 2023.
- In 2014 2024, the WCA is estimated to increase \$7.4M over 2023 due mainly to increases in Power Supply Expenses.

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13 5.9. 2025 TEST YEAR vs. 2024 TEST YEAR

- As submitted in the utility's original Application, Hydro Ottawa's average net fixed assets for 2025 are budgeted to be \$39.3M higher than 2024 due to capital additions in 2025.
 Based on 2019 actual net fixed assets, Hydro Ottawa's average net fixed assets for 2025 are budgeted to be \$39.4M higher than 2024.
 - In 2025, the WCA is estimated to increase \$3.7M over 2024 mainly due to increases in Power Supply Expenses.

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21 6. FACILITIES RENEWAL PROGRAM

Appended to this Schedule is UPDATED Attachment 2-1-1(A): New Administrative Office and Operations Facilities, which contains detailed information with respect to Hydro Ottawa's Facilities Renewal Program ("FRP"). This includes the assessment of prudence of the expenditures over \$66.0M, as required in the Approved Settlement Agreement governing the utility's 2016-2020 rate term.

- 28 In UPDATED Attachment 2-1-1(A): New Administrative Office and Operations Facilities, Table
- 29 12 and the revenue requirement for the FRP have been updated. There was a small change in



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- 1 the final total cost of the project (under \$1,000). In light of the immateriality of this change, the
- 2 Attachment was not updated to reflect it.

- 4 In addition, appended to this Schedule is a copy of the formal report that was prepared by the
- 5 Fairness Commissioner who was engaged by Hydro Ottawa at the outset of the FRP Request
- 6 for Qualifications process. The Fairness Commissioner ultimately concluded that "the
- 7 procurement process for the Facilities Renewal Program Design Build up to the completion of
- 8 the evaluation process was conducted in a fair, open and transparent manner." Please see
- 9 Attachment 2-1-1(B): Fairness Commissioner Report for further details.



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UPDATED NEW ADMINISTRATIVE OFFICE AND OPERATIONS FACILITIES

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3 1. EXECUTIVE SUMMARY

4 1.1. BACKGROUND

Hydro Ottawa was formed as a result of the amalgamation of five municipalities in the year 2000. At the time of amalgamation, the most advantageous option was to move all central functions to a new, purpose-built facility and to create distributed work centres for all construction and maintenance functions. However, due to the time constraints associated with the amalgamation and the magnitude of the capital decision to be made, all facilities were retained for the time being. As part of its distribution rate application filed in June 2011 (hereinafter referred to as its "2012 Cost of Service application"), a Facilities Strategy was presented and it described the status of facilities and the need to further evaluate and identify the best development solution. At that time Hydro Ottawa requested funding to purchase land, but not did not seek funding for the overall project.

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In its 2016-2020 Custom Incentive Rate-Setting ("Custom IR") application² filed April 29, 2015 (hereinafter referred to as its "2016-2020 Custom IR application"), Hydro Ottawa proposed to construct new facilities on two parcels of land that were purchased in 2012 and 2013, namely the Eastern Operations and Administrative Office Building ("East Campus") and a Southern Operations & Warehouse ("South Campus"), collectively referred to as "New Administration and Operations Facilities". In that application, the estimated cost of the New Administration and Operations Facilities was \$92.3M. This funding was for land and to construct new facilities that, amongst other objectives, would:

²⁴ Hvdro Ottawa Limited, 2012 Cost of Service Distribution Rate Application, EB-2011-0054 (June 17, 2011).

 ²⁵ ² Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application, EB-2015-0004 (April 29, 2015).



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- a) replace end of life buildings;
- b) move Hydro Ottawa's operational centers out of high traffic residential districts to sites
 with ready access to major highways within the Ottawa area;
- 4 c) consolidate operations and administrative staff; and
- 5 d) upgrade the operational centers in order to provide better response to customers.

7 In its Decision and Order dated December 22, 2015³ ("2015 Decision"), the OEB assessed and 8 approved the need for the New Administration and Operation Facilities.

The OEB also approved provisional funding of up to \$66.0M to enable Hydro Ottawa to proceed with the Request for Proposal process while ensuring that the final cost of the New Administration and Operation Facilities would be subject to a prudence review at a future date.

In order for Hydro Ottawa to track actual project cost versus the provisional funding amount, the

14 OEB established a series of deferral accounts.

16 Concurrent with the 2016-2020 Custom IR proceeding, in August 2015 a Request for Qualifications ("RFQ") process was initiated in order to identify potential contractors capable of providing Design Build services in support of the construction of new facilities.

In September 2015 the Strategic Initiatives Oversight Committee ("SIOC") of the Hydro Ottawa Board reviewed the project cost estimate and agreed that based on early indications of increased costs, the budget for the project would be capped at \$96.5M plus interest and overhead. By January 2016 a more detailed estimate of project costs was completed, identifying estimated costs of \$124.7M. This higher project cost estimate was unacceptable to Hydro Ottawa senior management and the Board of Directors and direction was provided to reduce the estimated project cost and scope. Based on this direction a revised plan and estimate was developed, re-confirming a project budget of \$96.5M plus interest and overhead. A Request for

²⁸ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).

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- 1 Proposals ("RFP") was then sent to the top four qualified respondents identified through the
- 2 RFQ process. Competitive bids were received and evaluated and a Design-Build contractor was
- 3 selected for the project.

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- 5 In order to ensure that the procurement process was conducted in a fair, open and transparent
- 6 manner, a Fairness Commissioner was engaged from the outset of the RFQ process to the
- 7 conclusion of the RFP phase. The Commissioner was satisfied that due process was followed.
- 8 The report in its entirety is included in this Application as Attachment 2-1-1(B): Fairness
- 9 Commissioner Report. The project was actively managed by a project team and ongoing
- 10 oversight was provided by Hydro Ottawa senior management and the Hydro Ottawa Board of
- 11 Directors through the SIOC.

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13 1.2. DESCRIPTION OF FACILITIES

14 The new facilities consist of two campuses, described as follows:

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- The East Campus is located at 2711 Hunt Club Rd. and is the new eastern operations centre and administration office. This facility consists of three distinct buildings comprised of:
 - a) an Administrative Office Building ("EC-1"),
- b) an Operations Centre ("EC-2"), and
- c) a Paper Insulated Lead Covered ("PILC") Cable Storage Facility ("EC-3").

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There is also a solar generation net metering facility on the property.

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Hydro Ottawa moved into this property in stages over the January to May 2019 period.

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2. The South Campus is located at 201 Dibblee Rd. and is the Operations Centre for the south and western portion of Hydro Ottawa service territory. This facility is one



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building ("SC-1") that includes office space, an enclosed garage, warehousing and stores, metering and transformer shops, and storage space. There is also a solar generation net metering facility on the property.

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Hydro Ottawa moved into this property in May 2019.

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The location of the new facilities at Hunt Club Rd. and Dibblee Rd. can be seen in Figure 1.

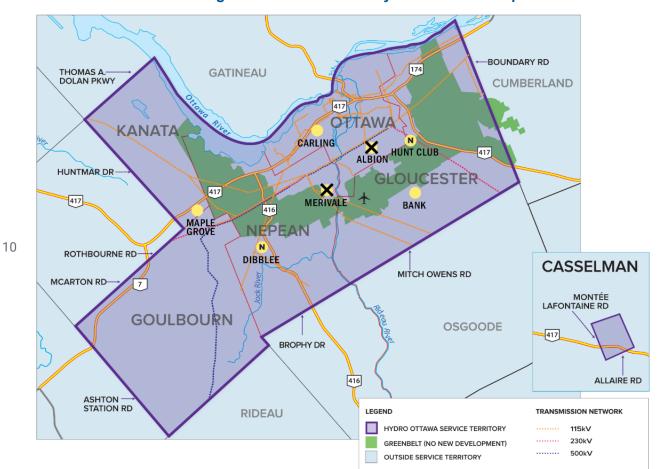


Figure 1 – Service Territory and Location Map



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- 1 In total, 293,873 square feet of New Administration and Operations facilities space has been
- 2 constructed. Table 1 provides a summary of the location, functionality and size of these new
- 3 facilities.

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Table 1 – Building Size (Square Feet)

	Office	Garage	Warehouse / Storage Space	Total	
East Campus - Hunt Club Rd.					
EC-1 Building	127,132			127,132	
EC-2 Building	10,780	46,735		57,515	
EC-3 Building			10,318	10,318	
Sub-Total for East Campus	137,912	46,735	10,318	194,965	
South Campus - Dibblee Rd.					
SC-1 Building	22,644	42,773	33,491	98,908	
TOTAL	160,556	89,508	43,809	293,873	

- 7 The main buildings at the East Campus can be seen in Figures 2 and 3 below. The main
- 8 building at the South Campus can be seen in Figure 4 below.



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Figure 2 – East Campus 1



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Figure 3 – East Campus 2 and 3





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Figure 4 – South Campus 1



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4 1.3. COST OF NEW FACILITIES

- 5 The total cost of the New Administration and Operations Facilities investment is \$99.5M
- 6 including land (\$80.0M excluding land). This amount is included in rate base for the 2021-2025
- 7 Test Years in this Application. These costs are summarized below in Table 2 below.



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Table 2 – Total Cost of New Administration and Operations Facilities

	Construction + Interest & OH	Land	Total Cost
East Campus			
EC-1 Administrative Office	\$47,311,660		
EC-2 East Operations Centre	\$9,682,771		
EC-3 PILC Storage	\$2,524,621		
	\$59,519,052	\$12,694,254	\$72,213,306
South Campus			
SC-1 South Operations Centre and Warehouse	\$20,530,091	\$6,800,443	\$27,330,534
TOTAL	\$80,049,143	\$19,494,697	\$99,543,840

3 In summary, subsequent to the \$92.3M requested in its 2016-2020 Custom IR proceeding,

4 through the detailed design, estimation, procurement phase and construction process, overall

5 project costs came in \$7.2M higher than the preliminary estimate. Table 3 provides a breakdown

6 of the total project cost compared to the cost projections proposed in its 2016-2020 Custom IR

7 proceeding.

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Table 3 – Comparison of Final Cost to Costs filed in Previous Application

Total Project (\$)	Total Cost	As Filed in 2016-2020 Custom IR Application	Variance (\$)	Variance (%)
- Land	\$19,494,697	\$19,514,000	\$(19,303)	0%
- Construction	\$76,526,966	\$68,902,690	\$7,624,276	11%
Subtotal	\$96,021,663	\$88,416,690		
- Interest & O/H	\$3,522,176	\$3,930,289	\$(408,113)	-10%
TOTAL	\$99,543,840	\$92,346,979	\$7,196,861	8%

11 1.4. PROJECT BENEFITS AND PRUDENCY

12 The guiding principles for the project were collaboration, innovation, flexibility & adaptability,

13 health & wellness and sustainability. Through the construction of the East Campus and South

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1 Campus facilities the identified objectives are being met and the expected benefits are starting

2 to be achieved. These benefits include operational efficiency in areas such as responsiveness

3 to customer trouble calls and outages, work team collaboration, logistics and inventory

4 management, safety and wellbeing, and reduced environmental impact.

5

6 The buildings have been "right sized" and Hydro Ottawa has reduced its workplace space

7 standards. Office sizes are now lower than the Federal Government workplace space standards

8 for most positions and office space per employee is lower than benchmarked LDCs. Land is

9 fully utilized and there is room for nominal future office staff growth through the use of flexible

10 office design and touch-down work stations. Overall, project costs compare favourably to other

1 LDCs when escalation and land costs are taken into consideration.

12

13 The project was prudently managed throughout each phase and had an active governance,

4 reporting and cost control structure. Potentially higher-than-anticipated costs were identified in

15 advance and decisions made on a timely basis regarding appropriate trade-offs and changes.

16

17 Hydro Ottawa has received "value for money" from this project with the stated objectives of the

8 project being achieved and costs comparing favourably to similar construction projects. This

19 was a "once in a generation" capital project and the results will benefit Hydro Ottawa customers

20 over many years to come.

21

22 The following sections provide details on the background of the project, a description of the

23 facilities constructed, a summary of project costs and a demonstration of the various aspects of

24 overall project prudency.



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1 2. BACKGROUND

2 2.1. HISTORY OF NEW ADMINISTRATION AND OPERATIONS FACILITIES PROJECT

In its 2012 Cost of Service application, Hydro Ottawa provided evidence that discussed a strategy to address the future use of facilities acquired through the amalgamation of five municipalities. This evidence also identified the need for new facilities to meet future Administration and Operations facility needs. The facilities strategy identified and evaluated four options that would address the facility needs of Hydro Ottawa. These options were:

8

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- 1. Retain Existing Facilities;
- 2. Consolidate all of the inside Administrative Staff at the Albion Road Facility;
- 3. Consolidate all of the inside Administrative Staff at the Merivale Road Facility; or
 - 4. Construct New Facilities at Optimal Locations.

13

12

After considering the four options, it was decided that the lowest cost and best value option to pursue was Option 4 "Construct New Facilities at Optimal Locations". At that time, approval was sought and subsequently received to include \$4.0M in capital expenditures to acquire land for the new facilities. Funding for the actual construction cost was not sought in that application with the expectation being that construction would take place over the 2013-2015 period and approval for these costs would be included in a future rate application.

20

Subsequent to the OEB's Decision in Hydro Ottawa's 2012 Cost of Service application, the purchase of land and the construction of the new facilities was deferred. Over the 2012-2014 period appropriate land was identified and purchased and more detailed plans were developed for the construction of new facilities.

25

Over the course of Hydro Ottawa's 2016-2020 Custom IR proceeding, the utility presented evidence in support of a request to spend \$92.3M on land and buildings for New Administration and Operations Facilities at two new locations, as presented in Table 4 below.



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Table 4 – 2016-2020 Custom IR Application - Facilities Project Estimate (\$'000s)

	East Campus	South Campus	Total
Land	\$12,716	\$6,798	\$19,514
Construction	\$56,813	\$16,020	\$72,833
TOTAL	\$69,529	\$22,818	\$92,347

2

3 Hydro Ottawa and intervenors participated in a settlement conference and subsequently filed a

4 Settlement Agreement dated September 18, 2015. As part of that agreement, the parties

5 accepted,

6 7

8

"... Hydro Ottawa's evidence that the proposed budget of \$73 million (without land) for the construction of Hydro Ottawa's new operating centers and administrative facilities as set out in project description and business case contained in Exhibit B-1-2 and Exhibit B-1(A) is an appropriate spending level on the capital spending for the proposed facilities. The Parties agree that the new facilities represents a once in a generation investment."

1112

10

Subsequent to filing the Settlement Agreement, the OEB convened an oral hearing on September 30, 2015 to ask questions on the proposed Settlement Agreement. At this hearing, various aspects of the agreement were discussed including the new facilities and the use of deferral accounts. In the OEB's subsequent Decision on the Settlement Proposal,⁵ the OEB said:

18 19

"The OEB does not approve the settlement proposal as filed. The OEB does not find sufficient evidence to determine prudence of the following:

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24

- The \$73 million cost estimate of the new administration and operations buildings (the New Buildings).
- The need for approximately 9 acres of land in excess of the building requirements at a cost of \$4 million "to expand in future, if necessary". 6

²⁶ Hydro Ottawa Limited, Settlement Proposal, EB-2015-0004 (September 15, 2015), page 15.

²⁷ Ontario Energy Board, *Decision on Settlement Proposal and Procedural Order No. 11,* EB-2015-0004 (November 28, 23, 2015)

^{28 23, 2015).} 29 ⁶ *Ibid*, page 2.



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1 Notwithstanding this determination, it is critical to note that the OEB also stated the following:

"The OEB finds that **Hydro Ottawa has demonstrated the need for the New Buildings**. The current buildings are at the end of their useful lives and at capacity from a staffing perspective". (Emphasis added)

7 With respect to funding, the OEB Findings stated that:

"The OEB is prepared to approve Y-factor treatment based on the recovery of up to \$66 million combined for the proposed New Buildings and the land.... The \$66 million was determined by the OEB as a reasonable amount to enable Hydro Ottawa to proceed with the Request for Proposal process while ensuring that any additional cost of the New Buildings and the land is subject to a prudence review at a future date... While Hydro Ottawa has applied for recovery of up to \$92 million for the New Buildings and land in the Custom IR term, the OEB is only prepared at this point to accept up to \$66 million."

"The OEB expects that Hydro Ottawa will provide the evidence to support its spending above \$66 million for the New Building and land and proposed rate base additions as part of its next rebasing application. The evidence would need to demonstrate prudence of the cost of the New Buildings, land and the associated benefit to customers.⁸

The Settlement Agreement was updated accordingly and re-filed on December 7, 2015 to include the following section:

"The Parties agree, pursuant to Procedural Order No. 11 that Hydro Ottawa may proceed to issue a Request for Proposal and that Hydro Ottawa is approved to incur expenses up to \$66 million for the land and buildings associated with the New Facilities as described in Hydro Ottawa's Custom IR Application. The Parties agree that this approval is based on the OEB's assessment of and concurrence with Hydro Ottawa of its need for the New Facilities. The \$66 million includes \$15 million for the cost of land and \$51 million towards the construction of the New Facilities. The Parties acknowledge the OEB's statement that the \$66 million is in no way determinative of the final amount the OEB will accept as being prudently incurred and that the OEB will assess prudence for additions above \$66 million based on evidence to support spending above \$66 million as supplied by Hydro

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^{35 &}lt;sup>7</sup> *Ibid*, page 3.

³⁶ ⁸ *Ibid*, pages 4-5.



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1 Ottawa at its next rebasing. For clarity the Parties understand that the original agreement 2 reached on September 18, 2015 was for \$93 million which comprised of \$19 million for the land and \$73 million for the buildings construction. In Procedural Order No. 11 the 3 Board approved expenses up to \$66 million comprising of \$15 million for the land, \$51 5 million for the New Facilities."9 6 7 The OEB issued its Decision in the proceeding on December 22, 2015. With respect to the proposed new facilities the OEB said: 9 "However, the OEB did not find sufficient evidence to determine prudence of the \$73 10 million cost estimate of the New Buildings and the \$19 million cost of land. While the 11 OEB found that Hydro Ottawa had established the need for the New Buildings, the 12 excess building and land capacity was not supported by the evidence."10 (Emphasis 13 14 added) 15 16 Based on its review of the evidence, the OEB stated that it was prepared to approve Y- factor 17 treatment based on the recovery of up to \$66M combined for the proposed New Buildings and 18 the land. The decision stated that: 19 "The \$66 million was determined by the OEB as a reasonable amount to enable Hydro 20 Ottawa to proceed with the Request for Proposal process while ensuring that any 21 22 additional cost of the New Buildings and the land is subject to a prudence review at a future date."11 23 24 25 Further to the OEB direction provided in the 2016-2020 Custom IR Decision, Hydro Ottawa is

28

29 2.2. RECAP OF THE NEED FOR NEW FACILITIES

30 The need for new facilities was established in the 2016-2020 Custom IR proceeding where

26 now providing information by way of this Application to support the prudency of expenditures

27 related to land purchased and the construction of buildings for new facilities.

³⁴ ¹¹ *Ibid*, page 5.

⁹ Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Amended September 18th, 2015 Settlement

³² *Proposal*, EB-2015-0004 (Originally filed September 18, 20015; refiled December 7, 2015), page 18.
33 ¹⁰ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015), page 5.



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"The OEB finds that **Hydro Ottawa has demonstrated the need for the New Buildings**. The current buildings are at the end of their useful lives and at capacity from a staffing perspective." (Emphasis Added)

3

1

2

The following provides a summary of evidence previously submitted in support of the need for new facilities. The need for new facilities was identified 20 years ago when Hydro Ottawa amalgamated from five former municipalities namely Ottawa Hydro, Gloucester Hydro, Nepean Hydro, Kanata Hydro and Goulbourn Hydro. Due to the short timeframe given for amalgamation and the magnitude of capital required, Hydro Ottawa opted to temporarily keep the facilities that existed at that time. These facilities are now between 45 and 60 years old, not in optimal locations, were designed and built in a different era and are at the end of their useful life. These facilities are also at capacity, in need of major repair and no longer meet operational needs. Key reasons in support of the established need for the new facilities are:

14

15 Asset End of Life

Hydro Ottawa's investment in new facilities is a once in a generation investment. This investment was identified 20 years ago to better locate the operation centres within the service territory, to consolidate administrative functions, to modernize the work environment and to provide for future growth. Buildings such as the Albion Road facility are 60 years old and were designed and built in an era to meet a very different need from what is currently and prospectively served.

22

23 Public Safety

- Due to commercial and residential growth in the areas surrounding Hydro Ottawa facilities, truck and employee traffic poses safety risks to the general public. At the Albion Road facility for example, school children board and debark from school buses just outside the Hydro Ottawa
- Ontario Energy Board, Decision on Settlement Proposal and Procedural Order No. 11, EB-2015-0004 (November 23, 2015), page 3.



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- 1 facility. Wide turning bucket trucks must navigate heavily populated residential streets posing a
- 2 risk to public safety.

3

4 Operational Efficiency

Hydro Ottawa's move to new facilities is further motivated by the need to consolidate its administrative and operational staff promoting organizational and operational synergies. Consolidating administrative, technical and operational staff will permit greater operating efficiencies by increasing opportunities for collaboration and cross-functional teamwork. In addition to providing a greater foundation for productive collaboration, the new facilities are located close to major traffic arteries in the City of Ottawa and significantly reduce travel time to work locations by work crews resulting in improved customer service and response times. The East Campus location decreases travel time to the core service area, and the South Campus improves the access to main warehousing and expanded south/west service areas and is aligned with the growth of the City.

15

Employee Health and Safety

Hydro Ottawa's existing facilities are being extended beyond their useful lives and are unable to meet future requirements without major renovations or requiring new construction/leasing off-site facilities. The current facilities have many deficiencies several of which present possible health and safety concerns for Hydro Ottawa staff, crews and customers and/or require substantial investment to replace or repair. For example there have been elevator motor failures trapping staff, rodent infestations, poor air quality and there is uneven pavement and flooring causing a risk of slips and falls. The building also requires major investment to upgrade the building envelope (roof, windows, flooring, HVAC system) to facilitate a more favourable work environment.

26

27 **2.3. KEY OBJECTIVES**

28 Key objectives of the Facilities Renewal Program were to:



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replace end of life buildings;

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- move Hydro Ottawa's operational centers out of high traffic residential districts to sites with ready access to major highways within the Ottawa area;
- consolidate operations and administrative staff;
 - upgrade the operational centers in order to enhance customer service and satisfaction;
- increase overall operating efficiencies through proper location, integration and
 streamlining of services;
 - facilitate organizational synergies by consolidating administrative and technical staff and adapting modern technologies and innovative workplace standards;
 - provide leadership in energy conservation and sustainability;
- create a healthy, flexible and multi-functional work environment for Hydro Ottawa employees; and
 - achieve Leadership in Energy and Environmental Design ("LEED") Gold certification for the East Campus Administrative Office building and LEED Silver for East and South Operation Buildings, and maximize energy efficiency.

17 **2.4**. **TIMELINE OF KEY DATES**

- 18 The following summarizes key milestones and dates culminating in the completion of the new 19 facilities project:
 - December 28, 2011, 2012 Cost of Service proceeding: OEB Decision accepted need to proceed with development work on new facilities including land purchase.
- December 24, 2013: Initial RFQ was posted and closed on February 28, 2014
- April 2015: Retained a third party project advisor to do a peer review on the project procurement and intended Design Build contract
- April 29, 2015: Hydro Ottawa filed its 2016-2020 Custom IR application which included a request for \$92.3M for the Facilities Renewal Program; The \$92.3M was based on a high level (Class D) feasibility estimate



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- July 30, 2015: Peer review report on design build procurement for new facilities
 prepared, recommending improvements in the RFQ/RFP documentation and to revise
 and re-initiate the process
- August 26, 2015: Updated RFQ issued
- September 22, 2015: SIOC agreed that total project cost would be capped at \$96.5M
 plus capitalized interest and overhead
- November 23, 2015: RFQ submissions evaluated and results communicated, four
 qualified proponents identified
- December 22, 2015:: OEB Decision concurred with the need for new facilities and approved provisional funding of \$66.0M with requirement to demonstrate prudency for any amounts in excess of that amount
- January 20, 2016: a more thorough estimate (Class C) of \$124.7M plus capitalized
 interest and overhead was developed
- February 3, 2016: SIOC review and decision to make necessary design changes and scope reductions and re-confirm project budget at \$96.5M plus capitalized interest and overhead
- May 18, 2016: Completed value engineering and revised design validation and a
 detailed Class B estimate prepared
- May 26, 2016: RFP issued to four qualified proponents
- October 14, 2016: Fairness Commissioner report issued, confirming fairness of RFP process
- October 18, 2016: Final results of RFP evaluation communicated; M. Sullivan & Son chosen as Design-Builder
- October 2016 May 2019: Ongoing project construction, monitoring and cost control
- May 2019: Project completed at a cost of \$80.0M (\$99.5M including land, capitalized interest and overhead) and staff move to new facilities



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1 3. DESCRIPTION OF FACILITIES

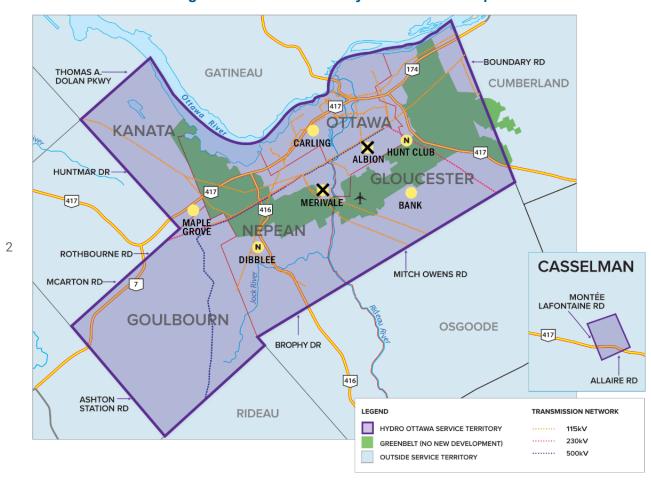
- 2 Hydro Ottawa's Facilities Renewal Program involved construction of new facilities on two
- 3 parcels of land purchased in 2012 and 2013, namely the Eastern Operations and Administrative
- 4 Office Campus and a Southern Operations & Warehouse. The location of the New
- 5 Administration and Operations Facilities are indicated on the the map of Hydro Ottawa's service
- 6 territory in Figure 5 below.



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Figure 5 – Service Territory and Location Map



- 3 In total, 293,873 square feet of New Administration and Operations facilities space has been
- 4 constructed. Table 5 below provides a summary of the location, functionality, and size of these
- 5 new facilities.



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1 3.1. THE EAST CAMPUS

- 2 The East Campus is located at 2711 Hunt Club Rd. This facility consists of three distinct
- 3 buildings comprised of:

4

- 5 1. EC-1: The Administrative Office Building
- 2. EC-2: The Operations Centre for eastern sector of Hydro Ottawa service territory, and
- 7 3. EC-3: PILC Cable storage facility

8

- 9 The East Campus land parcel was purchased in April 2013 and is located at the corner of Hunt
- 10 Club Rd. and Hawthorne Ave. near Highway 417 (see Figure 6 below). Table 5 provides site
- 11 specific details of the East Campus.

Table 5 - East Campus Overview

	TOTAL EAST CAMPUS	EC-1	EC-2 / EC-3
acres	21.08	9.07	12.01
sq. ft	137,912	127,132	10,780
sq. ft	46,735		46,735
sq. ft	10,318		10,318
acres	2.07		
#	439		
#	40		
#	42		
#	419		
#	140		
\$	\$59,519,052	\$47,311,660	\$12,207,392
\$	\$12,694,254	\$5,459,235	\$7,235,019
\$	\$72,213,306	\$52,770,894	\$19,442,411
	sq. ft sq. ft sq. ft acres # # # # # \$	CAMPUS acres 21.08 sq. ft 137,912 sq. ft 46,735 sq. ft 10,318 acres 2.07 # 439 # 40 # 419 # 140 \$ \$59,519,052 \$ \$12,694,254	CAMPUS acres 21.08 9.07 sq. ft 137,912 127,132 sq. ft 46,735 sq. ft 10,318 acres 2.07 # 439 # 40 # 419 # 140 \$ \$59,519,052 \$47,311,660 \$ \$12,694,254 \$5,459,235



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1 Three separate buildings are part of the East Campus with a total building footprint of 194,965

2 Sq. Ft. The largest structure, the Administrative Office Building, is a reinforced concrete building

3 consisting of three floors of administrative office space, a partial lower level and structural steel

4 roof over the top level mechanical floor for a total of 127,132 Sq. Ft.

5

6 The Eastern Operation Centre is a 57,515 Sq. Ft. single-storey building with a pre-engineered

7 garage and a conventional masonry and steel structure for the office space and material

8 management functions, plus the necessary operational muster rooms, boot washing, lockers

9 and shower areas. This building has an indoor garage for parking 42 heavy duty fleet vehicles,

10 and also provides kitting bays, material kanbans, and overhead and underground tool storage

11 rooms.

12

13 The enclosed PILC Storage Facility is a 10,318 Sq. Ft. Paper Insulated Lead Covered cable

14 storage building with a clear span pre-engineered steel frame superstructure which is supported

15 on a reinforced concrete foundation. This building is a warehouse to store and process

16 overhead and underground cable and provides protection from the elements.

17

18 The East Campus also has a 2.52 acre solar yard and an exterior material storage yard.

19

20 Images of the East site and main buildings are included in Figures 6 and 7 below.



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Figure 6 – EC-1 and EC-2 Buildings



Figure 7 – EC-3 Building, Solar Field and Berm



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1 3.2. THE SOUTH CAMPUS

- 2 The South Campus is located at 201 Dibblee Rd. and is the Operations Centre for the south and
- 3 western portion of Hydro Ottawa's service territory. This facility is predominantly operational and
- 4 is contained in one building that includes office space, an enclosed garage and
- 5 warehouse/storage space and a transformer shop. There is also a solar generation facility on
- 6 the property.

7

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- 8 The overall site plan and photographs of the constructed facilities can be seen provided in
- 9 Figures 8 and 9 below.







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Figure 9 – SC Storage Yard, Solar Field and Storm Water Management Pond





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1 Key statistics regarding the South Campus facility are provided in Table 6.

2

Table 6 – South Campus Overview

Site Specific Information		TOTAL SOUTH CAMPUS
Site Size	acres	20.26
Office Area	sq. ft	22,644
Garage Area	sq. ft	42,773
Indoor Material Storage	sq. ft	33,491
Yard Space	acres	2.77
Employee parking spaces (all outdoor)	#	101
Outdoor fleet vehicle parking spaces	#	36
Indoor fleet vehicle parking spaces	#	54
Inside Staff	#	18
Outside Staff	#	76
Building cost excluding land	\$	\$20,530,091
Land	\$	\$6,800,443
Building cost including land	\$	\$27,330,534

4

5 The South Campus consists of one 98,908 Sq.Ft. building made up of three separate components comprised of (a) a pre-engineered garage, and (b) warehouse and transformer structures, which book-end (c) a central one storey conventional reinforced masonry and steel structure with office space, muster and meeting areas, lockers and showers, and the metering calibration, repair and storage functions.

10

11 The South Campus site includes the following features:

12 13

- Indoor heavy duty fleet vehicle parking;
- Indoor kitting bays, material kanbans, tool and equipment storage areas;
- Office and operations support areas;



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- Outdoor storage and equipment yard;
- Outdoor fleet parking area;
 - Retention receiving area 10-ton overhead crane;
- Warehouse;
 - Metering calibration, workshop and storage; and
- Transformer shop

7

3

5

8 3.3. STAFF IN NEW FACILITIES

9 Where staffing numbers are presented in this document, Hydro Ottawa is using headcount not

10 FTEs, as headcount more accurately reflects space usage needs. For example, when students

11 are hired in the summer there is a need to have space for the whole person, not a calculated

12 FTE amount.

13

14 The East Campus facility includes space for staff of both Hydro Ottawa and other affiliates of

15 Hydro Ottawa Holding Inc. ("Holding Company"). Cost transfers associated with the shared use

16 of the East Campus space are transacted consistent with the Affiliate Relationships Code as

17 discussed in Exhibit 4-2-1: Shared Services and Corporate Cost Allocation. Given that the East

18 Campus facility was built to accommodate both regulated and affiliate company staff, Table 7

19 provides staff level headcount information for Hydro Ottawa and affiliates.

2021

Table 7 – Number of Staff at New Facilities - Hydro Ottawa and Affiliates

(Headcount - June 30, 2019)	East Campus	South Campus
Administration (Inside)	419	18
Operations (Outside)	140	76
TOTAL	559	94

22

23 The East Campus includes Hydro Ottawa staff associated with the following functions:

24 Executive Team, Information Management and Information Technology, Human Resources,



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- 1 Finance, Customer Service, Communications and Public Affairs, Distribution Operations –
- 2 Central & East, Distribution Asset Management, Distribution Operations Underground, System
- 3 Operations, Business Performance, GIS and Records, Policies and Standards, Design & Asset,
- 4 Distribution Operations Business Performance and Scheduling, Stations East and Engineering.
- 5 In addition, as noted above, the East Campus includes space for staff from affiliate companies.

- 7 The South Campus includes Hydro Ottawa staff associated with the following functions:
- Metering, Distribution Operations South, Stations South, Engineering, Business Planning and
- 9 Scheduling and Materials Management.

10

PROJECT BENEFITS 11 **3.4.**

12 Key Principles that guided the design of the buildings were:

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- Collaboration: A flexible and adaptable workplace that encourages collaboration and new ways of working and making decisions;
- Health & Wellbeing: Put physical and mental wellbeing, as well as sustainable living, at the forefront of your daily routine; and
 - Innovation: A resilient workforce that embraces change and disruption through innovative ways of thinking and working.

- 21 As discussed in section 2.1 above, the OEB agreed that Hydro Ottawa had demonstrated the 22 need for the new facilities. Hydro Ottawa identified several factors that drove the established 23 need, some of which include: (i) the replacement of aging buildings that are at the end of their 24 useful lives; (ii) a relocation of operational centers out of high traffic residential districts; (iii) 25 increase of overall operating efficiencies through proper location, integration and streamlining of 26 services; and (iv) an upgrade of the operational centers in order to provide better operational 27 response to customers.



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1 Hydro Ottawa's old facilities were between 45 and 60 years old and were designed and built in a

2 different era and according to outdated standards. In light of this, at the core of the new facilities'

3 design was not only to address Hydro Ottawa's need for new facilities but also to take

4 advantage of modern best building practices and to build healthy and sustainable facilities.

5 There is research that demonstrates employers who care about the environmental impact of

6 their buildings as well as the health and wellbeing of their staff are rewarded by improved

7 productivity and loyalty, which can be worth more than their initial investment. 13

8

9 Hydro Ottawa completed construction of the new facilities in May 2019. Staff moved into the 10 facilities over a series of moves during the January to May 2019 period. By designing and 11 building the new facilities, Hydro Ottawa addressed operational and safety needs. The utility 12 also expects that the new facilities will improve employee workplace wellness and productivity 13 and reduce the environmental footprint of building operations. The new facilities are sustainable, 14 energy efficient and certified to LEED Gold standards. The resulting benefits of the new facilities 15 are described in more detail below.

16

17 **3.4.1. Operational Efficiency**

One of the objectives of the new facilities was to enhance operational efficiency. This objective involves consolidating operations and administrative staff as well as upgrading operational centers in order to provide better response to customers and create better, more efficient working conditions. The resulting benefits in this regard include the following but not limited to:

2223

2425

 Work team collaboration: Consolidating administrative, technical and operational staff allows for greater operating efficiencies and opportunities. Having various work teams (e.g. Underground Lines, Overhead Lines, 24/7, Stations, Designers, Engineers) within the Operations Centers or adjacent, in the case of EC-1, allows for more efficient

World Green Building Council, *Building the Business Case: Health, Wellbeing and Productivity in Green Offices* (October 2016).



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collaboration amongst these work groups that improves timely information communication and reduces travel time. This, in turn, results in more effective work planning and execution as well as improved response time. Hydro Ottawa's underground and metering groups are able to allocate their resources between the East and South campuses to enable more efficient delivery of projects across the service territory and reduce overall travel time. Meeting rooms and common spaces in operations centres help to promote collaboration. For example, the use of "Ready Rooms" allows for improved tail boarding amongst teams at the beginning of the work day. Meeting room technology improves timely information communication and reduces travel time as meetings across the service territory can be conducted virtually. Also, the use of touchdown locations in operations centres allows designers, engineers and other work groups to temporarily work from various locations to better support field activities.

Accessibility: The new facilities are located in close proximity to major traffic arteries in the City of Ottawa (Highway 417 in the East and Highway 416 in the South portions of Hydro Ottawa service territory). This reduces travel time to work locations by work crews resulting in better customer service and improved incident response times. Consolidated 24/7 operation located more centrally within the city, leading to better accessibility to ready access to highways 416 and 417, leads to improved incident response times.

• Logistics: At both the East Campus and the South Campus, there are better designed yards to load/unload and store large material and equipment (pole trailers, transformers, semi-truck deliveries, etc.). There are also multiple tool cribs providing for the separation and improved organization of material and operating equipment for individual teams within work groups and safety and accident prevention is enhanced with larger garage entrances and exits, including one-way traffic flow. The specific building for PILC cable EC-3 has space and a dedicated crane for loading and unloading reels and scrapping



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cable in an efficient manner. The EC-3 building also provides a facility which significantly decreases the risk of cross contamination of lead and asbestos by providing separate washing facilities and storage for designated substances.

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Warehouse benefits: Having a centralized warehouse reduces overall inventory
administration. It provides for a more efficient layout for stock-picking and workflow. It
also eliminates travel between sites, reduces potential communication gaps and
standardizes site specific procedures for ease of training. Improved highway proximity
also improves delivery access for third party supply chain providers.

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- *Indoor vehicle parking*: The operational benefits of indoor parking for heavy duty fleet vehicles include:
 - reduced warm-up time resulting in higher productivity, and lower greenhouse emissions that would result from outside cold weather idling;
 - expected longer average service life of vehicles;
 - improved functionality of live line tools on aerial devices as these tools must be kept clean and dry in order to maintain dielectric strength and insulation levels.
 The former facility was severely constrained in this regard as the newer bucket trucks did not fit in the garages; and
 - keeping electronic test equipment, mobile computers, first aid supplies, rubber cover up and live line tools in an above freezing environment.

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23 **3.4.2**. Safety

Another objective of the new facilities was to move Hydro Ottawa's operational centers out of high traffic residential areas to sites that have an easy access to major highways. Due to commercial and residential growth in the areas surrounding Hydro Ottawa facilities, truck and employee traffic posed safety risks to the general public. For example, at the Albion Road facility, school children boarded and debarked from school buses just outside the Hydro Ottawa



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facility. Wide turning trucks had to navigate heavily populated residential streets posing a risk to public safety. Through their location in commercial and light industrial areas close to main highways, the new facilities largely resolve this concern. Furthermore, the new facilities enhance safety and accident prevention for Hydro Ottawa's employees by having larger garage entrances and exits, with one-way traffic flow and separated staff vehicle parking and routes.

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7 3.4.3. Employee Wellness and Productivity

8 Hydro Ottawa is committed to improving health, wellbeing and productivity of its employees. The 9 new facilities were designed and built with the goal to create a healthy working environment that 10 enhances the health, wellbeing and productivity of Hydro Ottawa's employees. In 2017, a 11 multidisciplinary team of experts from Harvard University carried out a study to identify the 12 elements and effects of healthy indoor environments as well as to understand the interaction 13 between personal and public health, productivity, and building design (the "Study"). 14 Some of 14 the highlights of the Study include the following:

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• People work more efficiently in environments with good air quality. Common indoor pollutants that pose risks to human health include nitrogen oxides, carbon monoxide, ozone, particulate matter, and volatile organic compounds ("VOCs") found in building materials, printer emissions, cleaning supplies, paint, glue, furniture, and other materials. Exposure has been linked to numerous health problems, such as cancer and respiratory diseases, as well as absenteeism, poor productivity, and low cognitive function.

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 Buildings constructed with low-VOC materials and finishes reduce exposure to toxic substances. Studies show employees who work in buildings where fresh air is adequately circulated and distributed are more productive and healthier than those who work in poorly ventilated spaces. A low-VOC, high-ventilation office space with superior air quality improves cognitive function by as much as 101%.

²⁸ ¹⁴ Harvard T.H. Chan School of Public Health, *The 9 Foundations of a Healthy Building* (February 2017).



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• Comfortable temperature and humidity levels are less likely to make workers feel sick or get sick. A study on workplace thermal conditions found that workers experienced itchy and watery eyes, headaches, and throat irritation when exposed to poor ventilation, humidity, and heat. When indoor environments are too warm, occupants can experience symptoms of "sick building syndrome," such as headaches, dizziness, fatigue, and flu-like symptoms, as well as negative moods, heart rate changes, and respiratory problems. Temperature and humidity may also influence disease transmission, as cold, dry environments are more likely to spread the flu virus, and warm, humid environments are conducive to the growth of mold and fungus.

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Good lighting leads to better sleep at night and better productivity during the day. Lack of
natural light has been associated with physiological and sleep problems and depression.

Exposure to daylight and access to windows at work have been linked to better sleep
duration, an improved mood, less sleepiness, lower blood pressure, and increased
physical activity. Office workers with access to natural light have a better circadian
rhythm, which is important for sound sleep and cognitive function.

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Reducing the noise level improves productivity and job satisfaction. With about 70% of offices now having an open floor plan, more workers are susceptible to distractions from noise. A survey of more than 1,200 senior executives and nonexecutive employees found that 53% reported ambient noise reduced their work satisfaction and productivity. Exposure to environmental noise can increase accidents and impair employee performance and productivity, especially during difficult and complex tasks, and has been linked to higher blood pressure, changes in heart rate, and hypertension. Sound masking was included in the administration building to eliminate ambient noise.

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27 Through designing and building the new facilities according to healthy and green building 28 standards, Hydro Ottawa expects to achieve the following benefits: (i) maximize employee



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1 performance and productivity, (ii) attract and retain high-quality employees, (iii) reduce impacts

2 of presenteeism and absenteeism and (iv) promote improved health for employees.

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4 The new facilities are functional – not opulent. They have modern audio-visual and information technologies and amenities that help to promote employee collaboration, innovation and flexibility. The offices have been ergonomically designed and furnished in order to create a productive work environment (e.g. sit/stand desks). The office design will lead to reduced absenteeism, reduced sick time, increased staff morale and retention and recruitment success.

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10 3.4.4. Environmental Footprint of the New Facilities

Hydro Ottawa is committed to reducing the environmental impacts of its building operations.

Buildings can generate up to 35% of all greenhouse gases, 35% of landfill waste comes from
construction and demolition activities, and up to 70% of municipal water is consumed in and
around buildings. As such, making buildings greener can have a substantial impact on larger
environmental goals. Furthermore, in recognition of the potential negative impacts associated
with the design, construction and operation of the municipal building inventory, the City of
Ottawa enacted a policy that requires all new municipal buildings to be designed and delivered
in accordance with the Certified performance level of the LEED green building rating system.

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LEED certification provides independent, third-party verification that a building has been designed and built using strategies aimed at achieving high performance in key areas of human and environmental health: location and transportation, sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality. There are four certification levels: Platinum, Gold, Silver and Certified. Regardless of the certification level achieved, all projects must meet mandated prerequisites and then choose from 110 available credit points to reach the desired certification level. The LEED Platinum level certification achieves the highest honor and the LEED Certified level achieves fundamental performance. Hydro Ottawa's new facilities have been built and certified to LEED Gold standards. The project



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1 budget called for the Operations buildings, namely EC-2 and SC-1, to be designed and built to a

2 LEED Silver standard. However, through negotiations with the Design-Builder, these facilities

were built to a LEED Gold standard at no incremental cost.

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5 In addition to the above mentioned LEED certification, the new facilities also provide

6 environmental benefits as they receive a portion of their electrical power through on-site solar

7 generation. Overall, the new facilities help to reduce the environmental impact of Hydro

8 Ottawa's building operations.

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10 3.5 CUSTOMER ENGAGEMENT

As noted above the Facilities Renewal Program has been considered by Hydro Ottawa since amalgamation 20 years ago. As part of Hydro Ottawa's 2012 Cost of Service application, a Facilities Strategy was presented and it described the status of facilities and the need to further evaluate and identify the best development solution. At that time, Hydro Ottawa requested funding to purchase land, but did not seek funding for the overall project. The rate hearing process was a public, open and transparent process. The plans were reviewed by the OEB in that proceeding. In addition, at the proceeding intervenor groups, representing various public interests, participated in the process and reviewed Hydro Ottawa's plans.

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20 On April 29, 2015 Hydro Ottawa submitted its 2016-2020 Custom IR application to the OEB.

1 This application presented evidence in support of a request to spend \$92.3M on land and

2 buildings for New Administration and Operations Facilities at two new locations, and outlined the

need for the facilities. During the customer consultation process that preceded the filing of the

24 2016-2020 Custom IR application, Hydro Ottawa engaged customers on the matter of these

25 facilities. For example, the workbook survey utilized by the company to solicit feedback from

26 customers included such questions as what customers' views were on Hydro Ottawa having



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1 proper facilities to house its staff, vehicles, and tools. In addition, as part of the OEB

2 proceeding to review the application, Hydro Ottawa held a public meeting on July 7, 2015,

during which information about the new facilities and the plan to recover costs through a Y

Factor was shared. 16

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During the hearing process information on the Facilities Renewal Program was once again

7 scrutinized by both the OEB and the intervenor community, with the intervenor community and

OEB Staff agreeing to total projected funding amount as part of the initial Settlement Agreement

dated September 15, 2015.¹⁷ In addition, as a result of this proceeding the OEB found that

10 Hydro Ottawa had established the need for the New Buildings.

11

12 During the scoping process for the new facilities in late 2015 and early 2016, a revised estimate

13 indicated that the cost to construct the facilities as planned would be \$124.7M (see section 4.1

of this Attachment). Hydro Ottawa considered this cost to be unacceptable from a customer

15 rates perspective and the scope of the project was re-visited to bring the budget down to

\$96.5M excluding interest and overhead. This consideration of customer impacts resulted in a

reduction in cost of approximately \$28M. The project was completed in 2019, on-time and on

budget for a final total cost of \$99.6M including interest and overhead. An average residential

customer in Ottawa will see approximately \$0.93 per month on their bill as a result of the new

20 facilities.

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22 Throughout this period, management of Hydro Ottawa reported to its Board of Directors and,

23 through its shareholder the Holding Company, to the City of Ottawa on the status of the project.

²⁴ ¹⁵ Innovative Research Group, Customer Consultation Report: 2016 Rate Application Review Prepared for Hydro

²⁵ Ottawa Limited (April 2015). This report can be found in Hydro Ottawa's 2016-2020 Custom Incentive Rate-Setting

²⁶ Distribution Rate Application, EB-2015-0004 (April 29, 2015), Attachment A-3(A): Customer Engagement Report,

 ²⁷ page 135.
 28 Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-setting Application Presentation to the Ontario Energy

²⁹ *Board*, (July 7, 2015), page 29. 30 ¹⁷ Hydro Ottawa Limited, *Settlement Proposal*, EB-2015-0004 (September 15, 2015), page 15.



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- 1 This project has been highlighted in Hydro Ottawa's annual report every year since 2012. The
- 2 annual report is part of a package that is provided by the Chair of the Hydro Ottawa Board to the
- 3 Mayor of Ottawa and Ottawa City Council at their Annual General Meeting ("AGM") held in June
- 4 each year.

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- 6 The new facilities are also identified on Hydro Ottawa's public web site and were mentioned in
- 7 the customer engagement effort associated with this Application. 18

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9 4. PROJECT COSTS

10 4.1. OVERALL COSTS

- 11 Since 2015, as the project progressed, cost estimates were refined. These cost refinements
- 12 resulted in increases from the initial estimated cost as more detailed design information became
- 13 available. In order to control costs to a level closer to the original budget, adjustments were
- 14 made in a number of different areas such as project scope, office size and building finish. The
- 15 progression of key project estimates is presented in the following table:

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Table 8 – Summary of Project Costs

	EB-2015- 0004	SIOC Approved	EB-2015- 0004	Updated	SIOC	EB-2019- 0261
	Submitted	Budget	Approved	Estimate	Re-Confirmed	Final Cost
Total Project						
- Land	\$19,514	\$19,514	\$15,000	\$19,514	\$19,514	\$19,495
- Construction	\$68,903	\$76,986	\$51,000	\$105,186	\$76,986	\$76,527
	\$88,417	\$96,500	\$66,000	\$124,700	\$96,500	\$96,022
- Interest & O/H	\$3,930					\$3,522
TOTAL	\$92,347					\$99,544
	April 29, 2015	Sept. 22, 2015	Dec. 20, 2015	Jan. 20, 2016	Feb. 3, 2016	Sept. 30, 2019

¹⁹ See Exhibit 1-2-2: Customer Engagement on the 2021-2025 Rate Application for details.



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At the time, the initial \$92.3M estimate was developed for the 2016-2020 Custom IR application, minimal detailed design information had been prepared. As the project progressed and further planning and design information was prepared, it became apparent to Hydro Ottawa that the cost of the project as initially envisaged would be higher than estimated. In September 2015, the SIOC of the Hydro Ottawa Board of Directors discussed potential cost cutting measures and

agreed that the budget for the project would be capped at \$96.5M plus interest and overhead.

By early 2016, further detailed costing information was developed and the estimated cost of the project increased to \$124.7M (plus interest and overhead). This information was presented to the SIOC at a meeting on February 3, 2016. This increase was unacceptable to Hydro Ottawa senior management and to the SIOC, and action was taken to reduce various aspects of the project costs. These reductions included reducing the size of the Administrative Office Building, reducing office workplace standards (Workplace 2.0 modified) and retaining the Bank Street facility for fleet and training. Based on the proposed cost reduction measures, the Hydro Ottawa

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Detailed design requirements were then updated to reflect these changes and a Request for Proposals was issued on May 26, 2016 to the four proponents qualified through the RFQ process. The RFP responses were evaluated and M. Sullivan and Son was chosen to be the Design Build contractor for the project.

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Upon completion of the new facilities project, the total project costs were \$99.5M (\$19.5M for land, \$76.5M for construction and \$3.5M for Allowance for Funds Used During Construction ("AFUDC") and burdens), this represents an increase of \$7.2M or 7.8% over the preliminary estimate of \$92.3M in the last rate application. With respect to the hard construction costs of approximately \$57.5M, discussed in section 4.2, these came in below the detailed design (Class B) estimate of May 2016 by 2% or \$1.2M.

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15 SIOC re-confirmed the project budget to be \$96.5M.



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- 1 The overall project cost excluding interest, AFUDC, and overhead was \$96.0M (\$0.5M under
- 2 the Hydro Ottawa Board-approved figure of \$96.5M). The contingency provided for in the Hydro
- 3 Ottawa Board budget of \$96.5M was used primarily to address issues encountered during
- 4 construction such as:

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- 6 (i) development charges and municipal requirements from the City of Ottawa;
- 7 (ii) unexpected site conditions (e.g. soil issues at the East Campus);
- 8 (iii) "protected vegetation" at field operations site; and
- 9 iv) technological security and operational improvements.

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11 4.2. QUANTITY SURVEY REPORT

- 12 A "Quantity Survey Report" dated May 18, 2016 was prepared by an independent professional construction cost estimator. The purpose of the report was to provide Hydro Ottawa a realistic
- 14 estimate of expected probable direct and indirect construction costs for the East Campus and
- 15 South Campus new facilities. This report was based on the experience of the professional
- 16 construction cost estimator, historical costing information and familiarity with the construction
- 17 industry in the Ottawa area. This estimate was prepared in accordance with generally accepted
- 18 principles and practices for estimating construction projects.

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20 The methodology followed as described in the report is as follows:

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"From the documentation and information provided, quantities of all major elements were assessed or measured from the drawings and outline specifications where possible and priced at rates considered competitive for a project of this type under a fixed price sub-contract in Ottawa, Ontario.

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28 29 Pricing shown reflects probable construction costs obtainable in the Ottawa area on the effective date of this report. This estimate is a determination of fair market value for the construction of this project. It is not a prediction of low bid. Pricing assumes competitive bidding for every trade."



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Estimated project costs as per the Quantity Survey report are presented in Table 9 below. This estimate relates to "hard" construction costs and excludes costs such as land, furniture and furnishings, development fees, professional fees, overheads and financing charges. It is noted that actual costs came in \$1.2M or 2.1% lower than the estimate that was prepared over three years prior. This demonstrates both the rigour of the estimate and also active cost management and control throughout the project life cycle. The hard construction costs as shown below represent 72% of the total construction costs excluding land. The higher than estimated costs on EC-1 is largely attributable to construction issues noted earlier, offset by savings largely in SC-1. Note that the functionality of initially envisioned separate SC-2 building (standalone storage) was incorporated into SC-1 thereby saving hard construction costs on this campus.

11 12

Table 9 – Final Building(s) Cost Compared to Quantity Survey Estimate

(\$)	Quantity Survey May 18, 2016	Final Actual Cost	Variance	Variance %
East Campus				
EC-1	\$29,087,871	\$32,629,279	\$3,541,408	12.2%
EC-2	\$9,355,861	\$7,686,656	\$(1,669,205)	-17.8%
EC-3	\$1,828,092	\$1,989,609	\$161,517	8.8%
	\$11,183,953	\$9,676,265	\$(1,507,688)	-13.5%
Sub-Total EC	\$40,271,824	\$42,305,544	\$2,033,720	5.0%
South Campus				
SC-1	\$18,122,397			
SC-2	\$348,605			
Sub-Total SC	\$18,471,002	\$15,210,734	\$(3,260,268)	-17.7%
TOTAL	\$58,742,826	\$57,516,278	\$(1,226,548)	-2.1%



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- 1 Planned building sizes that served as the basis for the costing in the Quantity Survey report are
- 2 presented in Table 10 below. As compared to the Quantity Survey report, total actual building
- 3 constructed square footage was 10,705 Sq. Ft (or 3.8%) greater than estimated.

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Table 10 – Final Actual Building(s) Size Compared to Quantity Survey Report (Square Feet)

East Campus	Quantity Survey May 18, 2016	Final Actual	Variance	Variance %
East Campus				
EC-1	120,825	127,132	6,307	5.2%
EC-2	57,727	57,515	(212)	-0.4%
EC-3	10,361	10,318	(43)	-0.4%
	68,088	67,833	(255)	-0.4%
Subtotal EC	188,913	194,965	6,052	3.2%
South Campus				
SC-1	90,503			
SC-2	3,752			
Subtotal SC	94,255	98,908	4,653	4.9%
TOTAL	283,168	293,873	10,705	3.8%

- 8 In summary, with respect to the direct construction costs as estimated in the Quantity Survey
- 9 report, actual project costs were 2.1% lower than estimated and actual building square footage
- 10 delivered was 3.8% higher than estimated. The result is essentially more building space for a
- 11 lower price than planned.



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Table 11 – Other Development Costs

	Budget	Final Actual Cost	Variance	Variance %
Design Build Costs	\$58,900,000	\$57,516,278	\$(1,383,722)	-2.3%
Other Development Costs ¹⁹	\$18,300,000	\$19,010,689	\$710,689	3.9%
Land	\$19,300,000	\$19,494,697	\$194,697	1.0%
Sub-total	\$96,500,000	\$96,021,665	\$(478,335)	-0.5%
Interest		\$2,838,753		
Overhead		\$683,423		
TOTAL		\$99,543,840		

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3 The main building structures of the new East Campus and South Campus facilities have been

4 designed and constructed to have a service life of 75 years. Other components of the new

5 facilities such as the roofing system, parking lot and internal furnishings and equipment have

6 shorter service lives consistent with the Kinectrics study and engineering and operational

7 experience.²⁰

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9 4.3. SALE OF FORMER ADMINISTRATIVE AND OPERATIONAL FACILITIES

10 Hydro Ottawa's New Facilities Plan included the sale of buildings that were to be vacated upon completion of the new construction.

12

13 The original New Facilities Plan called for the sale of the Bank Street location and the

14 development of new training and fleet facilities. However, in order to help control project costs, it

15 was decided by the Executive Management Team and SIOC to retain the Bank Street facility for

16 training centre and fleet management purposes instead of building new facilities for these

17 functions.

¹⁸ Other Development Costs include cash allowances, professional fees, furniture, equipment, and permits.

¹⁹ Kinetrics Inc., Asset Depreciation Study for Use by Electricity Distributors, EB-2010-0178 (July 8, 2010).



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- 1 The settlement agreement states that any gain or loss from the sale of Albion Road (A & C
- 2 properties), Merivale Road and Bank Street will be given back/charged to customers. The
- 3 Albion Road "A" property is one of the former Administrative Office Buildings and the Eastern
- 4 Operations centre. Albion Road "B" property is being retained as there is a transformer station
- 5 on that site. The Albion Road "C" property is vacant/surplus land and was used for yard storage.

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- 7 The Albion Rd. Property "A" and Merivale properties have been sold to third parties. Albion Rd.
- 8 Property "A" closed on November 27, 2019 and the Merivale Property closed on September 30,
- 9 2019. Albion Rd. Property "C" (surplus land) is being sold to an affiliate as of December 31,
- 10 2019. An independent valuation was performed by Altus Group to determine the sale price of
- 11 Property "C". The net proceeds are accounted for in deferral accounts as per the OEB's 2015
- 12 Decision. Further detail on the deferral accounts and the values being recorded can be found in
- 13 UPDATED Exhibit 9-1-1: Current Deferral and Variance Accounts.

- 15 The Merivale Rd., Albion Rd. Property "A" and Property "C" have been removed from rate base
- 16 effective September 30, 2019, November 30, 2019 and December 31, 2019 respectively.
- 17 A summary of the properties and the net gain/(loss) is provided in Table 12 below. The updated
- 18 version of Table 12 below reflects final sale values after accounting for 2019 actuals.



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Table 12 - AS ORIGINALLY SUBMITTED - Sale of Facilities

Anticipated Disposal Date	Merivale September 30, 2019	Albion (Property A) November 27, 2019	Albion (Property C) December 20, 2019
Proceeds	\$9,200,000	\$6,800,000	\$1,827,000
Less: NBV	\$(8,900,302)	\$(5,895,766)	\$ (4,271)
Sub-total	\$299,698	\$904,234	\$1,822,729
Less:			
Legal Costs	\$(16,859)	\$(58,924)	\$(50,000)
Environmental Costs	\$0	\$(650,946)	\$(11,935)
Other (e.g. Prof. Fees, Survey)	\$(82,876)	\$(129,410)	\$(0)
TOTAL OF ALL ASSOCIATED SELLING COSTS	\$(99,735)	\$(839,280)	\$(61,935)
Net Gain or (Loss)	\$199,963	\$64,953	\$1,760,794

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3 Table 12 – UPDATED FOR 2019 ACTUALS – Sale of Facilities

Disposal Date	Merivale September 30, 2019	Albion (Property A) November 27, 2019	Albion (Property C) December 20, 2019
Proceeds	\$9,200,000	\$6,800,000	\$1,827,000
Less: NBV	\$(8,710,396)	\$(5,838,460)	\$ (2,059)
Sub-total Sub-total	\$489,604	\$961,540	\$1,824,941
Less:			
Legal Costs	\$(29,993)	\$(69,317)	\$(5,657)
Environmental Costs	\$0	\$(664,171)	\$(11,935)
Other (e.g. Prof. Fees, Survey)	\$(84,604)	\$(209,793)	\$(48,755)
TOTAL OF ALL ASSOCIATED SELLING COSTS	\$(114,597)	\$(943,281)	\$(66,347)
Net Gain or (Loss)	\$375,007	\$18,259	\$1,758,595



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1 4.4. Y-FACTOR TREATMENT

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As the in-service date of the New Buildings was uncertain, in its April 29, 2015 Application, Hydro Ottawa proposed to record the revenue requirement impact of the new facilities as a Y-Factor. When the New Buildings became in-service, the new facilities revenue requirement impact would be calculated, and tracked in a deferral account. In its Decision in the 2016-2020 Custom IR proceeding, the OEB approved Y-factor treatment based on the recovery of up to

7 \$66.0M for the new facilities (\$51.0M for the New Buildings and \$15.0M for the land.) When one

8 new facility was in-service, Hydro Ottawa would file an application with the OEB and propose a

9 rate rider to clear the associated revenue requirement.

The new facilities came into service on May 1, 2019. Using the OEB-approved amount for Y-factor treatment of \$66.0M, the annual revenue requirement associated with the new facilities is \$3,320,514 for 2019 and \$5,823,637 for 2020. After accounting for 2019 actuals, the annual revenue requirement associated with the new facilities has been updated to \$3,307,44 for 2019 and \$5,821,770 for 2020. On a monthly basis the revenue requirement is added to the Y-factor deferral account, no carrying charges apply to the Y-factor account. Hydro Ottawa is collecting the initial estimate of the Y-factor through a rate rider effective January 1, 2020. For further detail regarding the calculations, accounting and disposition of these Y-factor costs, please see UPDATED Exhibit 9-1-3: Group 2 Accounts. The total revenue requirement for the new facilities is \$5,019,369 for 2019 and \$8,758,841 for 2020, and has subsequently been updated to \$4,999,624 for 2019 and \$8,757,386 for 2020, after accounting for 2019 actuals. The difference between revenue requirement of the \$66.0M captured in the Y-factor Account and the full cost of the new facilities is being recorded in a separate Regulatory Account, to be collected from customers after a prudencey review.

26 5. PRUDENCY OF THE NEW FACILITIES PROJECT

At the early stage of the new facilities project, Hydro Ottawa established a number of processes and reviews to ensure that each decision associated with the project was prudent and



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- 1 reasonable in light of the given circumstances. Hydro Ottawa also established checks and
- 2 balances to control the project costs and ensure the project adhered to the schedule. Taken
- 3 together, these actions demonstrate that Hydro Ottawa exercised prudent management in
- 4 planning and execution of the new facilities project.

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To demonstrate the prudency of the new facilities, this section describes the following:

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- right sizing of building design and full utilization of space;
 - land usage and functionality;
 - prudent project planning and procurement processes;
 - execution stages of the new facilities project, including ongoing project cost review and control: and
 - external benchmarking review of similar projects proposed by LDCs.

14

15 5.1. SIZE OF BUILDING AND SPACE UTILIZATION

- 16 A modern, healthy workplace supports greater productivity, a more engaged workforce and
- 17 better results for customers. Hydro Ottawa as an employer has a responsibility to create
- 18 workplaces that support the well-being, wellness and productivity of its employees.

- 20 Given the need for new facilities, Hydro Ottawa completed an office standards review to
- 21 determine the new building space requirements. As the primary guiding workplace standard and
- 22 the basis for its assessment, Hydro Ottawa used the Federal Government Workplace 2.0 Fit Up
- 23 Standards ("Workplace 2.0 Standards"), industry research promoting a healthy workplace and
- 24 Hydro Ottawa Guiding Principles of collaboration, innovation, flexibility & adaptability, health &
- 25 wellness and sustainability. The Workplace 2.0 Standards have been used by the Federal
- 26 Government, regulated entities and various municipalities, including the City of Ottawa. Hydro
- 27 Ottawa also used industry research to support the function of common workspace areas and the
- 28 impact that these spaces can have on employees and productivity.



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Hydro Ottawa then tailored the Workplace 2.0 Standard incorporating industry trends to better align with its operational requirements. Hydro Ottawa modified (i.e. reduced) the standard office space sizes during the design development to increase space allocation consistency, minimize operational costs, and increase office arrangement flexibility for any potential future growth. The resulting Hydro Ottawa workplace standards maximize real estate utilization, reducing overall building areas footprint and long term operational carrying costs. This was done by way of smaller open office workstation environments, increased touch-down work areas for highly mobile or temporary staff, more and varied types of meeting spaces including break-out or collaboration areas for staff, including areas such as a cafeteria, which can transform into a multi-purpose area. Open office environments were designed to maximize direct daylight into work areas, improving staff health and wellness and efficiency. Hydro Ottawa's design of the new facilities promotes its Guiding Principles of Collaboration, Health & Wellness and Innovation that are also in line with office design industry standards. By doing this, the overall health and wellbeing of employees improves which increases innovation, creativity and productivity, benefiting all parties involved.

16

17 Table 13 below summarizes the reduction in space standards by position coincident with the development of the new facilities.



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Table 13 – Hydro Ottawa Workplace Standards (Square Feet)

Position	Original Standard	New Standard	Change
Enclosed Offices			
CEO	300	300	0
Executives	265	200	(65)
Directors	225	125	(100)
Managers	150	107	(43)
Workstations			
Supervisors	80	36	(44)
Executive Assistant	64	48	(16)
Employees	64	36	(28)
Assigned Touchdown Stn.	64	15	(49)
Unassigned Touchdown Stn.	16	15	(1)
Touchdown Stn Trades	16	One 15 per 5 Empl.	(1)

2

1

As completed, the new Administrative Office Building ("EC-1") building has 127,132 Sq. Ft. of space and houses 419 staff at June 30, 2019. This is approximately 303 gross square feet per employee. Hydro Ottawa notes that this is well below the International Facility Management Association ("IFMA") average of 396 gross Sq. Ft. per occupant as well as the IFMA average of 425 gross Sq. Ft. per occupant for utilities. In addition to being lower than IFMA standards, Hydro Ottawa's workplace standards are typically lower than or at the lower end of the Workplace 2.0 Standard range. A comparison of Hydro Ottawa workplace space standards with the Government of Canada Workplace 2.0 and the IFMA standards for Utilities is provided in Table 14 below.



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Table 14 – Space Standard Comparison (Square Feet)

Position	Hydro Ottawa	Workplace 2.0	IFMA
Executives	200	200	332
Directors	125	150	228
Managers	107	108	158
Employees	36	48	86
Free Address	15	16	n/a

2

1

In assessing comparable workplace space allocation, Hydro Ottawa reviewed the overall Sq.Ft./Employee space allotment for other LDCs in their new facilities projects. Hydro Ottawa's office and workstation space allocations are lower than the space allocations of other utilities who have (or are proposing to construct) a dedicated administration facility. This comparison is summarized in Table 15.

8

Table 15 – Space Standard Comparison, LDC Administration Buildings

	Hydro	PowerStream	Enersource	Energy +
	Ottawa	(Now Alectra)	(Now Alectra)	Southworks
Gross Sq.Ft./FTE	303	368	527	327

10

Although the main Administrative Office Building is fully utilized and "right-sized" for the current staff level, future staff growth can be accommodated within the current building footprint through re-arranging workstation configuration and making use of peripheral aisle space and common areas.

15

5 5.2. LAND USAGE AND FUNCTIONALITY

The land parcels upon which the two projects are built were purchased in 2012 and 2013. In total Hydro Ottawa purchased approximately 41 acres for a total price of \$19.5M. The cost of land and acreage is summarized in Table 16 below.



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1

Table 16 - Land Cost

Location	Purchase Price	# Acres	\$/Acre
EC - Hunt Club Rd	\$12,694,255	21.08	\$602,194
SC - Dibblee Rd.	\$6,800,443	20.26	\$335,659
Total Land Cost	\$ 19,494,697	41.34	

2

In its 2015 Decision, the OEB made findings based on information that was provided at that time. Subsequent to the proceeding the site design layout and use has changed and there is no developable surplus land at either location, as further explained below. OEB findings at the time were as follows:

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'The OEB finds that Hydro Ottawa has not demonstrated the prudence of the \$19 million cost for the 41 acres of land. The land was purchased in 2012 and 2013. The total cost of \$19 million includes 9 acres of excess land valued at \$4 million. The benefit to customers associated with the \$4 million cost of the excess land has also not been explained."

111213

14 15 "The OEB finds the evidence to be inconclusive, suggesting that the purchased land area included a contingency over and above what is required for the New Buildings, by indicating that the "actual land acquisition provides capacity to expand in future, if necessary."²¹

16 17

The 2015 OEB Decision to not approve a portion of the land purchased (\$4M representing approximately 9 acres of land) was based on information contained in a presentation dated November 17, 2014, which was provided by Hydro Ottawa in response to School Energy Coalition interrogatory #11, Attachment B. The rationale for the Decision was that the land was excess to the current needs of Hydro Ottawa and was required to be able to expand in the future if necessary. Subsequent to the presentation produced in response to the interrogatory, both sites have been fully developed to meet current needs and there is no "surplus" land at

 ^{25 21} Ontario Energy Board, Decision on Settlement Proposal and Procedural Order No. 11, EB-2015-0004 (November 23, 2015), pages 3-4.



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1 either location. The 41.34 acres purchased is all necessary and is providing value to current

2 Hydro Ottawa customers.

3

The East Campus land area is 21.08 acres and consists of three buildings, parking, material storage, protected natural lands and property set-backs in respect of local planning requirements. The site includes 1.95 acres which could be considered as non-operational. However, the 1.95 acres is used to store "surplus fill" encountered during construction which was not considered clean soils per Ministry of the Environment, Conservation and Parks ("MECP") Guidelines for external off-site disposal. Hydro Ottawa saved in excess of \$700K by keeping these soils on site, which is permitted by MECP guidelines. This area was shaped into a berm at the north east end of the property and there is no environmental risk as the soils were considered contaminated mostly due to the amount of debris (broken concrete, rubble, scrap

14

The East Campus also has a 2.52-acre Solar Field at the north-west section of the property.

This 414 MWh net metering facility supplies electricity to the on-site buildings helping to reduce the consumption from the grid thereby lowering OM&A costs associated with the monthly

18 electricity bill.

metal, etc.) preventing it being disposed off-site as clean fill.

19

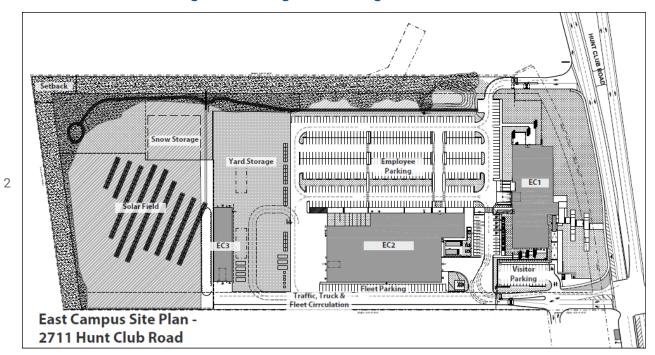
20 Figure 10 below shows East Campus land (21.08 acres) and the current buildings and uses of

21 this site.



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Figure 10 – Diagram Showing Use of EC Site



3

1

The South Campus land area is 20.26 acres and consists of one main building which houses office, garage and warehouse facilities. A condition pertaining to the South Campus site is that it is not serviced by municipal infrastructure (water and sewer) and required well water and treatment system and a septic system. The site has the main operational warehouse and equipment yard storage, and a stormwater management facility. There is a 0.76 acre non-operational portion of land at the extreme north-east end of the property. This portion has limited access and it is highly impractical to utilize this portion for future operations, or as it is "landlocked", to sever this portion of land from the main lands.

12

The South Campus also has a 4.2-acre Solar Field at the north-west section of the property.

This 424 MWh net metering facility supplies electricity to the on-site buildings helping to reduce

the consumption from the grid, thereby lowering OM&A costs associated with the monthly



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- 1 electricity bill. Further information on this solar facility can be found in Exhibit 2-4-3: Distribution
- 2 System Plan Section 8.5.1- General Plant.

4 Figure 11 is a site plan of the South Campus land and facilities.

Figure 44 Disagram Ch

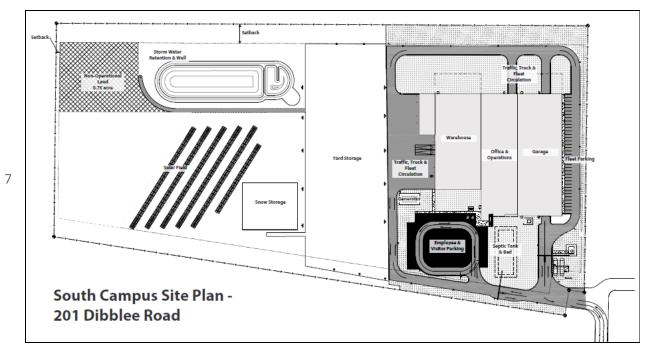


Figure 11 - Diagram Showing Use of SC Site

8

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6

5.3. PRUDENCY DURING THE PLANNING STAGE

As part of its prudent management strategy, at the early stage of the project, Hydro Ottawa formed a Project Management Team to oversee all day-to-day aspects of the facilities renewal program. This team was comprised of Hydro Ottawa staff, an independent project management firm, verTerra Corp., and an advocate architect/interior designer, HOK Canada, to manage the life-cycle of the project.



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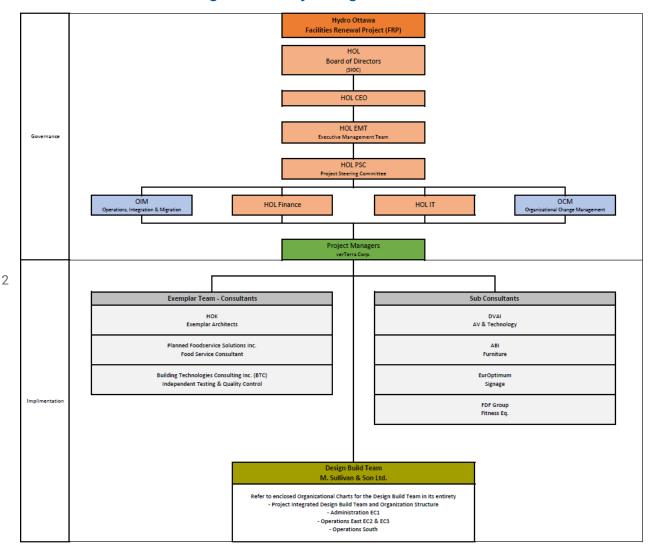
Hydro Ottawa also created various project teams tasked with distinct responsibilities. Project teams were structured to assist Hydro Ottawa with prudent and reasonable decision-making prior and during the planning stage of the new facilities project. The planning stage involved planning and procurement process to select a successful candidate to carry out the execution stage of the project. Hydro Ottawa also retained an independent, third-party Fairness Commissioner who was tasked to oversee and monitor the fairness and transparency of Hydro Ottawa's procurement process. The organization chart in Figure 12 below outlines the various roles and positions that comprised the management structure for the new facilities project. This

9 structure was in place for the planning and execution phases of the project.



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Figure 12 – Project Organization Chart



3

- 4 Effective project management and governance is critical to the success of a project. From the
- 5 outset, Hydro Ottawa established a structure and a team of experts to help ensure the
- 6 successful completion of the project and to ensure that prudent decisions were made
- 7 throughout the project life-cycle.



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1 5.3.1. Project Teams

- 2 In the early stage of the new facilities project, prior to initiating a public tender process, Hydro
- 3 Ottawa formed a project Design Team to provide preliminary design and technical scope
- 4 definitions that outline and convey Hydro Ottawa's requirements. The Design Team also
- 5 participated during the tendering process as a technical adviser to Hydro Ottawa. The Design
- 6 Team was comprised of the following firms:

7

- verTerra Corp. Project Manager and Procurement Advisor
- HOK Architects Corporation Advocate Architect
- R.V. Anderson Civil Engineering
- Cunliffe & Associates Structural Engineering
- Morrison Hershfield Mechanical and Electrical Engineering
- HOK Canada Landscape Architecture, Interior Layouts, Signage and Wayfinding

14

- 15 Hydro Ottawa also formed an Evaluation Team to review, evaluate and select a successful 16 proponent to build the new facilities project. The Evaluation Team consisted of Hydro Ottawa 17 Executive Management members and other staff, the Project Manager, the Advocate Architect
- 18 and Fairness Commissioner.

- 20 Hydro Ottawa engaged an independent procurement advisor to develop the procurement
- 21 strategy for the new facilities project, this advisor also had broader scope responsibilities and
- 22 served as Project Manager. Hydro Ottawa's requirement was to ensure its procurement strategy
- 23 adhered to the industry best practices for publicly tendered construction projects and was
- 24 consistent with the Canadian Construction Association and the Canadian Design Build Institute
- 25 standards for procurement. Additionally, Hydro Ottawa requested that its design build
- 26 procurement structure be based on similar scale design build procurement models successfully
- 27 implemented by the City of Ottawa. The procurement strategy was reviewed and approved by
- 28 the Executive Team and Hydro Ottawa's Board of Directors.



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The Project Manager was verTerra Corp. ("verTerra"), an Ottawa based Project Management and Real Estate Advisory Firm, that brought Design Build, Procurement and Operational Migration expertise to the project. verTerra served as the Owner's Representative to help protect the best interests of Hydro Ottawa during the entire project cycle. Prime areas of responsibility included managing and controlling project scope, budget and schedule. Given that the day-to-day construction of the facilities project was managed by a Design Builder (Sullivan & Son), verTerra assisted with the development of Hydro Ottawa's procurement documentation for the intended Design Build contract. verTerra was part of the Hydro Ottawa Project Team. The Project Team was comprised of Hydro Ottawa staff, verTerra and HOK Canada (HOL's advocate architect and interior designer). This arrangement helped to reduce project risk and maximize project success.

12

13 **5.3.2.** Request for Qualifications & Request for Proposals

A two stage procurement process is standard, where the RFQ provides the technical and qualitative requirements for market respondents to structure their teams and base their responses. An RFQ also provides critical insight into the commercial structure of the opportunity and sets out the expectations for the second RFP stage. The RFQ process also thoroughly assesses the capabilities and strengths of the proposed Design Build teams with the qualifications and requirements of Hydro Ottawa's specific project needs.

20

Hydro Ottawa retained verTerra to help develop a procurement strategy that would adhere to the industry best practices and standards. verTerra confirmed Hydro Ottawa's desire to select a design build contractor for the new facilities project using a two-stage procurement. The first stage was an RFQ, the purpose of which was to invite interested parties to submit RFQ submissions indicating their interest and qualifications to perform and complete the new facilities project. Hydro Ottawa initiated the RFQ stage on August 26, 2015 by posting a nation-wide online public solicitation. The RFQ required interested proponents to submit their design build qualifications and expertise with respect to Hydro Ottawa's specific design criteria and to



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1 demonstrate and substantiate their design build expertise and capability to execute similar scale

2 and like projects in order to be qualified.

3

Hydro Ottawa received a total of ten RFQ submissions from firms both local and external to the Ottawa market. The RFQ submissions were then evaluated by an Evaluation Team with the assistance of the Design Team. The RFQ evaluation criteria had both Mandatory requirements (e.g. capacity to bond, insurance, financial letter of good standing, etc.) and Qualitative requirements (e.g. design-builder overview and expertise, project references, design-build methodology, etc.). Proponents had to first satisfy the Mandatory requirements to be deemed compliant, and if compliant, were then evaluated against the Qualitative criteria. At the conclusion of the evaluation process, which was witnessed and assessed by the Fairness Commissioner, Hydro Ottawa short-listed the four highest ranking proponents, which were then invited to proceed to the second stage of the procurement process, the Request for Proposals.

14

On May 26, 2016, Hydro Ottawa issued the RFP to the four pre-qualified proponents. The purpose of the RFP was to obtain a fixed tender price for the design build components and evaluate the various design-build proposals for the new facilities project. The RFP stage was a stringent procurement process, and was overseen by the Hydro Ottawa Project Team, Hydro Ottawa Executive Management Team, Supply Chain Management and the Fairness Commissioner. Similar to the RFQ, the RFP consisted of Mandatory requirements that Proponents had to meet in order to be evaluated and also Qualitative requirements. All four pre-qualified proponents submitted responses, met the Mandatory requirements and advanced to the Qualitative evaluations.

24

Each member of the Evaluation Team was required to independently review and score each proponent submission based on the RFP's stipulated criteria and point distribution. Then the Evaluation Team met and developed consensus scoring for each proponent. The consensus sessions were facilitated by Hydro Ottawa's Supply Chain unit and overseen by the Fairness



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1 Commissioner to ensure fairness and complete objectivity. At the conclusion, Hydro Ottawa 2 selected M. Sullivan and Son ("Sullivan") based in Arnprior Ontario, as the successful proponent 3 ("Design Builder") for the new facilities project. M. Sullivan and Son is a full service general 4 contractor and has been in business for over 100 years. Sullivan submitted the combined best

5 value proposal, having both the best design and the lowest cost.

6

Once the successful proponent was selected, Hydro Ottawa required the Design Builder, on Hydro Ottawa's behalf, to tender most of the work that was required as part of the project. This included civil, mechanical, electrical, landscaping, road/access improvement work, kitchen equipment, signage, etc. To ensure the Design Builder exercised prudent management, verTerra was tasked to oversee that the Design Builder had a minimum of three bidders for each discrete work package and that all sub-trade bidders were pre-qualified by the Design Builder to meet Hydro Ottawa's established safety and quality requirements.

14

Aspects of the project not managed by the Design Builder (e.g. furniture) were tendered on an industry best practice basis, i.e. a minimum of three qualified bidders had to submit their proposals, evaluation and selection by the Project Manager. The Hydro Ottawa Supply Chain unit competitively tendered the necessary technology equipment, which was then integrated into the construction work and managed by verTerra and Sullivan as the design and construction advanced.

21

Hydro Ottawa's procurement process was structured to provide competitiveness and a variety of options from the proponents to ensure the utility was able to make prudent and reasonable decisions. The submitted proposals were subject to a rigorous evaluation process with participation of diverse range of stakeholders tasked with various responsibilities.

26

27 **5.3.3.** Fairness Commissioner and Report

28 The Fairness Commissioner was PPI Consulting Limited. An independent third party



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1 commissioned by Hydro Ottawa to oversee and monitor each stage of the RFQ/RFP process, to

2 ensure that the process was fair, transparent, and in compliance with stated requirements.

3

4 The Fairness Commissioner's responsibilities included the following, but were not limited to:

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- providing advice on fairness issues concerning the development of the request for
 proposal;
- monitoring and providing advice on potential or real barriers to proponent participation;
 - identifying key issues and potential risks in the procurement process;
 - identifying any situation which may compromise the integrity of the evaluation process (i.e. overseeing the evaluation team and procurement processes and assessing potential bias or undue influence);
- monitoring the evaluation of all submissions to oversee the fair treatment of all proponents;
 - monitoring the adherence of established government procurement practice in the planning, issue, evaluation, and
 - providing a Fairness Report at the conclusion of the evaluation process.

18

The Fairness Commissioner's report was provided to Hydro Ottawa on October 14, 2016, and concluded that "the procurement process for the Facilities Renewal Program Design Build up to the completion of the evaluation process was conducted in a fair, open and transparent

22 manner."

23

24 5.4. PRUDENCY DURING THE EXECUTION STAGE

With the selection of Sullivan as the Design Builder, Hydro Ottawa proceeded to the execution stage, to build the new facilities. Hydro Ottawa created a robust project management and governance structure, which included various levels of project oversight, detailed reporting and cost control. Hydro Ottawa also continued to retain verTerra as a third-party project



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management expert to provide project support and cost-control management of the new facilities project. Hydro Ottawa's Board of Directors, Strategic Initiatives Oversight Committee of the Board and the Executive Team received regular reports from the Project Team relating to, among other things, project costs and schedule and issues. The project management and governance structure helped to allow Hydro Ottawa senior management to be informed at every step of the project and make prudent decisions as the new facilities project was being constructed.

8

9 5.4.1. Effective Project Management and Governance

Hydro Ottawa structured a robust governance and reporting regime on the new facilities project which was overseen by Hydro Ottawa's Board of Directors and Executive Management Team.

12 The project was managed by the Project Steering Committee.

13

The Executive Management Team provided direct executive management oversight and control on all aspects of the project, including the design build contract, all procurements and all Hydro Ottawa managed scope of work. The Board of Directors provided strategic oversight and governance. The new facilities project was a standing reporting item to Hydro Ottawa's Board of Directors, SIOC, with updates on the project status including budget, schedule, safety, key risks and mitigations.

20

Hydro Ottawa created a Project Steering Committee which was co-chaired by the Chief Financial Officer ("CFO") and Chief Human Resource Officer ("CHRO"). In addition to the Co-Chairs, the Steering Committee included a cross section of Hydro Ottawa staff including managers from all operation divisions, technology, finance, communications and human resources. As the project evolved the Steering Committee created two distinct sub-committees: (i) the Operational Migration Committee ("OCM") chaired by the CFO which dealt with all the operational requirements, and (ii) the Change Management committee chaired by the CHRO which led staff engagement, communications and interior workplace matters. These two



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- 1 sub-committees were active across the entire duration of the new facilities project ensuring
- 2 compliance with the original specified requirements, and where necessary providing direction to
- 3 the Project Management Team.

4

- 5 verTerra Corp. assigned a full team of Project Management Professionals on the project under a
- 6 Project Director who had direct responsibility over the project and the Project Management and
- 7 Design Build teams. The Project Director directly reported to Hydro Ottawa's CEO, CFO and
- 8 CHRO and Board of Directors.

9

- 10 Hydro Ottawa held quarterly Executive Partnership Meetings with the Design Build Executive
- 11 Management Team, Hydro Ottawa's Project Manager, and Hydro Ottawa's CEO and CFO. The
- 12 purpose of these meetings was to ensure that Hydro Ottawa's Executive Team had oversight
- 13 and understanding of the project status, costs, emerging issues and risks. It also created an
- 14 open line of communication between Hydro Ottawa and the Design Builder.

15

16 **5.4.2.** Project Reporting

- 17 The Design Builder was required to provide highly structured, effective, and regular reporting to
- 18 Hydro Ottawa, at both the senior management and project team levels, for the duration of the
- 19 project. Senior project leadership was required on the part of the Design Builder to lead and
- 20 control the reporting interfaces with Hydro Ottawa and to structure appropriate reporting formats
- 21 and presentations that provide at a minimum, project status and progress on:

2223

- project approvals
- design development
- construction progress (including photographic documentation)
- project finances
 - value engineering opportunities/innovations
- 28 schedule



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- risks and mitigation strategies
- quality control
- site safety

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5 The new facilities project was reported as follows:

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- Quarterly reports and presentations made to Hydro Ottawa's Board of Directors, including status, budget, schedule, key risks and opportunities, and a next quarter look ahead.
- Monthly Executive Status reports were provided by the Project Manager, inclusive of project status, work completed last period, budget and changes, schedule, quality, key risks and opportunities, site photographs and next period look ahead.
- Monthly Design Build Reports were submitted by the Design Builder to the Project Manager, inclusive of overall status, sub-trade procurements, budget, schedule, quality, manpower and safety.
- Weekly site reports were provided by the Design Builder to the Project Manager and Hydro Ottawa Executives, including work performed, site photographs, quality and volumetric data, manpower and safety. It is noted that the project was completed without any lost time injuries.

20

21 **5.4.3.** Project Cost Review and Change Order Control

Once the project management and governance structure was established, it was important to constantly monitor project costs and have a stringent process for approval of any deviations from the originally quoted prices. The project total budget was managed by the Project Manager and monthly forecasts were submitted to Hydro Ottawa's CFO, and circulated to the CEO and Board of Directors. The Design Build cost reports were submitted monthly to the Project Manager by the Design Builder, complete with change order and change request forecasts/estimates. Changes to the contract were formalized by the Design Builder with



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detailed fixed price quotations upon direction by the Project Manager. Hydro Ottawa established a robust, stringent process to ensure that any changes to price were prudent and warranted.

3

4 Prior to a change being submitted for approval changes were first reviewed for accuracy and 5 cost fairness by the Design Builders Design and Engineering teams. The Project Manager 6 would then review the quotation and if deemed fair, certify the recommendation and submit it 7 directly to Hydro Ottawa's CFO for final approval. The CFO and the Project Manager conducted 8 regular change review meetings to review / discuss all submitted changes, review the budget 9 forecast, and if deemed acceptable, the CFO would sign off and a change order would be 10 issued to the Design Builder. The approval process employed by Hydro Ottawa was designed in 11 accordance with and adhered to Project Management Institutes and Canadian Construction 12 Association standard practices.

13

14 **5.4.4.** Payment Control

With respect to payment control, the Design Builder submitted monthly progress payment requests with a complete breakdown of expenditures for the period, including all relevant sub-trade, supply and change order invoices to Hydro Ottawa's Project Manager. All monthly progress payment submissions included a Statutory Declaration from the Design Builder certifying supply payments for the previous period had been made and also included a budget and schedule update. Hydro Ottawa's Project Manager reviewed for compliance with the contract and accuracy to work performed on site, and if acceptable, issued a written recommendation to Hydro Ottawa for payment. This process was compliant with the terms of the contract and adhered to PMI and industry best practices.

24

25 Billing and payment recommendation on all other contracts, outside of the Design Builder 26 contract responsibility, were managed by the Project Manager who acted as payment certifier, 27 verifying payment accuracy and fairness on all other related contracts.



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1 5.4.5. Project Schedule Control

Another important aspect of the prudent management included project schedule control. The project schedule was managed by the Project Manager with a master critical path schedule set as the baseline, inclusive of all project scope of work. The Design Builder also developed a critical path schedule for the design and construction works, which was linked to the Master Project Schedule. The project schedule was reviewed every two weeks in a Project Team meeting and updated monthly. Short term look ahead schedules were provided every two weeks and verified by the Project Manager on site.

9

10 5.5. EXTERNAL BENCHMARKING

11 5.5.1. Benchmarking Other LDCs

- 12 Hydro Ottawa is aware that benchmarking can be a useful measure of project cost performance.
- 13 The associated comparative information on building size, cost and staff levels can be
- 14 informative, however it is not precise. There can be differences in the nature of the projects (e.g.
- 15 new build or refurbishment), location (e.g. urban or rural), land costs (e.g. serviced, un-serviced,
- 16 nominal value) and year built (e.g. inflation) that all have an influence on project cost and
- 17 unitized comparisons.

- 19 Attempts have been made in previous OEB rate-regulated utility Cost of Service proceedings to
- 20 present and compare both administrative office and operations building costs. For example,
- 21 Table 17 summarizes administrative office and operations comparison information in pages 8
- 22 and 9 of the OEB Staff Submission dated March 29, 2019 from the EB-2018-0028 Energy+
- 23 proceeding (with the exception of the last column which has been added to reflect final project
- 24 information for Hydro Ottawa new facilities).



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Table 17 – Head Office Cost Comparison

	Power Stream	Waterloo North	Enersource	InnPower	Milton Hydro	PUC Distribution	Energy+	Hydro Ottawa
	EB-2008- 0244	EB-2010- 0144	EB-2012- 0033	EB-2014- 0086	EB-2015- 0004	EB-2012- 0162	EB-2019-01 80	EB-2019- 0261
Year In Service	2008	2011	2012	2015	2015	2012	2022	2019
Function	Admin.	Admin /Ops	Admin.	Admin/ Ops.	Admin/ Ops.	Admin./Ops.	Admin.	Admin./ Ops.
Type of Project	New Build	Custom Build	Purch./ Refurb	Custom Build.	Purch./ Refurb.	New Build	Purch./ Refurb.	New Build
Capital Cost	\$27,700,000	\$26,682,000	\$18,000,000	\$10,896,704	\$12,524,798	\$23,000,000	\$8,100,000	\$99,543,840
Sq ft	92,000	105,000	79,000	36,172	91,872	110,382	21,892	293,873
FTEs	250	125	150	41	62	87	67	653
Sq.Ft./FTE	368	840	527	882	1,494	1,269	327	450
Cost/FTE	\$110,800	\$213,456	\$120,000	\$265,773	\$203,655	\$264,368	\$120,896	\$152,441
Cost/Sq.Ft.	\$301	\$254	\$228	\$301	\$136	\$208	\$370	\$339

2

- 3 These comparisons are not necessarily made on an "apples to apples" basis or with full
- 4 information (e.g. being able to isolate land costs and similar building functions). For example,
- 5 Operations, Warehouse and Storage construction typically costs less than Administrative Office
- 6 space costs, yet the total square footage in the above table is aggregated. Land costs vary
- 7 across comparator LDCs and some are at a nominal value (e.g. Energy +). If land costs are
- 8 removed from Hydro Ottawa, the Cost/Sq.Ft is \$272 which compares favourably to other LDCs
- 9 as shown in Table 18 below.



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Table 18 - Head Office Cost Comparison, Excluding Hydro Ottawa Land

	Power Stream	Waterloo North	Enersource	InnPower	Milton Hydro	PUC Distribution	Energy+	Hydro Ottawa
	EB-2008- 0244	EB-2010- 0144	EB-2012- 0033	EB-2014- 0086	EB-2015- 0004	EB-2012- 0162	EB-2019-01 80	EB-2019- 0261
Year In Service	2008	2011	2012	2015	2015	2012	2022	2019- Excl. Land
Function	Admin.	Admin /Ops	Admin.	Admin/ Ops.	Admin/ Ops.	Admin./Ops.	Admin.	Admin./ Ops.
Type of Project	New Build	Custom Build	Purch./ Refurb	Custom Build.	Purch./ Refurb.	New Build	Purch./ Refurb.	New Build.
Capital Cost	\$27,700,000	\$26,682,000	\$18,000,000	\$10,896,704	\$12,524,798	\$23,000,000	\$8,100,000	\$80,049,143
Sq ft	92,000	105,000	79,000	36,172	91,872	110,382	21,892	293,873
FTEs	250	125	150	41	62	87	67	653
Sq.Ft./FTE	368	840	527	882	1,494	1,269	327	450
Cost/FTE	\$110,800	\$213,456	\$120,000	\$265,773	\$203,655	\$264,368	\$120,896	\$122,587
Cost/Sq.Ft.	\$301	\$254	\$228	\$301	\$136	\$208	\$370	\$272

2

- 3 In order to help benchmark facilities on a comparable basis, information from Table 19 below
- 4 identifies facilities that are strictly Administration and then capital costs are escalated to 2019
- 5 dollars. These results are then compared with Hydro Ottawa's Administrative Office Building.
- 6 This comparison, which reflects escalation for PowerStream and Enersource capital cost is
- 7 presented in Table 19 below.



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Table 19 – Head Office Admin. Building Costs, PowerStream & Enersource Escalated

	Energy+	PowerStream	Enersource	Hydro Ottawa
	(Southworks)			
OEB Docket	EB-2018-0028	EB-2008-0244	EB-2012-0033	EB-2019-0261
Functions	Admin.	Admin	Admin.	Admin. (EC-1)
In-Service Year	2022	2008	2012	2019
Total Cost	\$8,100,000	\$37,588,900	\$21,114,000	\$52,770,894
Total Sq. Ft.	21,892	92,000	79,000	127,132
FTEs	67	250	150	419
Sq.Ft./FTE	327	368	527	303
Cost/FTE	\$120,896	\$150,356	\$140,760	\$125,945
Cost/Sq.Ft.	\$370	\$409	\$267	\$415

2

3 Costs for PowerStream and Enersource were escalated/normalized using the Statistics Canada

4 Building Construction Price Index. Cost escalation results from this Statistics Canada

information are summarized in Table 20.

6 7

Table 20 – Statistics Canada Building Construction Price Index

	Q1 2008	Q1 2012	Q2 2019	Q2'2019/Q1'2008	Q2'2019/Q1'2012
Toronto	83.0	90.4	108.3	30.5%	19.8%
Ottawa/Gatineau	81.0	93.7	109.9	35.7%	17.3%

8

The 2008 cost of the PowerStream Admin. Building (\$27,700,000) was escalated by 35.7% and the 2012 cost of the Enersource Admin. Building (\$18,000,000) was escalated by 17.3%. The Building Construction Price Index for Ottawa-Gatineau was used to enable a closer comparison to the vintage of a building had it been constructed in the Ottawa area. It is noted that non-residential construction cost escalation in the Ottawa-Gatineau area has been higher than in Toronto over the 2008 to 2019 period (35.7% compared to 30.5%) but lower in the 2012 to 2019 period. The most direct comparison to Hydro Ottawa's building is the PowerStream



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building as it is similar in nature in that it is a new build, primarily administration and does not include operations, garage and warehousing facilities. The PowerStream escalated cost of \$409 sq./ft. is close to the Hydro Ottawa cost of \$415 sq./ft.. Further differences between the PowerStream and Hydro Ottawa cost per sq./ft. would be the price of land but Hydro Ottawa does not have the information needed to remove the land costs from the comparator LDCs. Hydro Ottawa recognizes that while attempting to normalize data through escalation could be helpful in some cases, it does not necessarily result in a meaningful comparisons as there are other factors that create unit cost differences the nature of the project (new build vs. refurbishment, the cost of land and the mix of space (e.g. office / warehouse / garage / operations / storage).

11

With respect to other unitized measures that are not impacted by escalation, it is noted that the
Hydro Ottawa Administrative Office Building, when compared to the other administrative office
buildings in Table 19 above, has the lowest number of Sq. Ft,/FTE (303 Sq.Ft/FTE), reflecting
efficient use of space. Hydro Ottawa also has the lowest Cost/FTE when compared to
PowerStream and Enersource (\$125,945/FTE). The Energy+ Southworks Cost/FTE, while lower
than Hydro Ottawa's, is not directly comparable with Hydro Ottawa Administrative Office
Building as the nature of the Energy+ project is a refurbishment/renovation and the building was
purchased for \$1.²²

- 21 Removing the cost of Hydro Ottawa land from Table 19, results in a Cost of \$372 per Sq. Ft. as
- 22 shown in Table 21 below.

²³ ²² Update to Evidence, EB-2018-0028 (December 13, 2018), page 10.



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Table 21 – Head Office Admin Building Costs, PowerStream & Enersource Escalated – Excluding Hydro Ottawa EC Land

	Energy+ (Southworks)	PowerStream	Enersource	Hydro Ottawa
OEB Docket	EB-2018-0028	EB-2008-0244	EB-2012-0033	EB-2019-0261
Functions	Admin.	Admin	Admin.	Admin. (EC-1)
In-Service Year	2022	2008	2012	2019
Total Cost	\$8,100,000	\$37,588,900	\$21,114,000	\$47,311,660
Total Sq. Ft.	21,892	92,000	79,000	127,132
FTEs	67	250	150	419
Sq.Ft./FTE	327	368	527	303
Cost/FTE	\$120,896	\$150,356	\$140,760	\$112,916
Cost/Sq.Ft.	\$370	\$409	\$267	\$372

3

- 4 Table 22 below compares the East Campus Administration & Operations buildings (EC-2 &
- 5 EC-3) to other Administration & Operations buildings identified in Table 18 above. In order to
- 6 compare on a current cost basis, costs have been escalated using the Statistics Canada
- 7 Building Construction Price Index for the relevant In-Service year as per Table 23.²³

 $^{8^{-23}}$ Update to Evidence, EB-2018-0028 (December 13, 2018), page 10.



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Table 22 – Comparison of Administration & Operations Buildings (Escalated \$) to

East Campus (EC-2 & EC-3)

	East Campus (EC-2/EC-3) - Operations, Office, Garage, Warehouse								
	Waterloo North Hydro Inc.	InnPower	Milton Hydro Distribution Inc.	PUC Distribution Inc.	Hydro Ottawa EC-2 & EC-3 Scenario 1: Incl. Land	Hydro Ottawa EC-2 & EC-3 Scenario 2: Excl. Land			
Functions	Admin & Ops	Admin & Ops	Admin & Ops	Admin & Ops	Admin & Ops	Admin & Ops			
In-service Year	2011	2015	2015	2012	2019	2019			
Total Cost	\$32,578,722	\$12,487,623	\$14,353,419	\$26,979,000	\$19,442,411	\$12,207,392			
Total Sq. Ft.	105,000	36,172	91,872	110,382	67,833	67,833			
FTEs	125	41	61.5	87	140	140			
Sq. Ft./FTE	840	882	1,494	1,269	485	485			
Cost/FTE	\$260,630	\$304,576	\$233,389	\$310,103	\$138,874	\$87,196			
Cost/Sq. Ft.	\$310	\$345	\$156	\$244	\$287	\$180			

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4 It is noted that when costs are escalated, Hydro Ottawa's EC-2/EC-3 facilities have the lowest

5 Cost/FTE (\$138,874) and is in the midrange of Cost/Sq.Ft. (\$287). The EC-2/EC-3 facility has

6 the lowest Sq.Ft./FTE result (485) which is significantly lower than all other comparative results

7 - this result is not impacted by escalation. As land prices vary across the Province, Scenario 2

8 removes the cost of land from the Hydro Ottawa Total Cost to provide a clear picture of

9 construction costs, resulting in a Cost/Sq. Ft of \$180. Hydro Ottawa does not have the

10 information needed to remove land costs from the comparator LDCs.

11

12 In order to compare on a current cost basis, costs have been escalated using the Statistics

13 Canada Building Construction Price Index for the relevant In-Service year as per Table 23

14 below.²⁴

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¹⁵ ²⁴ Update to Evidence, EB-2018-0028 (December 13, 2018), page 10.



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Table 23 – Statistics Canada Building Construction Price Index

	Q1 2011	Q1 2012	Q1 2015	Q2 2019	Q2'2019 / Q1'2011	Q2'2019 / Q1'2012	Q2'2019 / Q1'2015
Toronto	87.5	90.4	93.7	108.3	23.8%	19.8%	15.6%
Ottawa/Gatineau	90	93.7	95.9	109.9	22.1%	17.3%	14.6%

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3 Table 24 below compares the South Campus Administration & Operations building to other

4 Administration & Operations buildings identified in Table 18 above.

5

6 It is noted on Table 24 below, that when costs are escalated, Hydro Ottawa's SC-1 facility costs
7 as measured by Cost/FTE and Cost/Sq. Ft. are in the middle of the comparator LDCs. The
8 number of Sq. Ft/FTE is also in the middle of the range. Hydro Ottawa acknowledges that there
9 are a variety of configurations to the mix of Administration and Operations space and also
10 differences in cost between a refurbished facility (e.g. Milton Hydro) and a new build. Also,
11 differences in land values and size will have an impact on comparator costs. As such, a
12 Scenario 2 has been provided which removes the land cost from the SC-1 building in order to

13 provide an indication of direct construction costs.



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Table 24 – Comparison of Administration & Operations Buildings (Escalated \$) to South Campus (SC-1)

	South Campus (SC) - Operations, Office, Garage, Warehouse									
	Waterloo North Hydro Inc.	InnPower	Milton Hydro Distribution Inc.	PUC Distribution Inc.	Hydro Ottawa SC-1 Scenario 1: Incl. Land	Hydro Ottawa SC-1 Scenario 2: Excl. Land				
Functions	Admin & Ops	Admin & Ops	Admin & Ops	Admin & Ops	Admin & Ops	Admin & Ops				
In-service Year	2011	2015	2015	2012	2019	2019				
Total Cost	\$32,578,722	\$12,487,623	\$14,353,419	\$26,979,000	\$27,330,534	\$20,530,091				
Total Sq. Ft.	105,000	36,172	91,872	110,382	98,908	98,908				
FTEs	125	41	61.5	87	94	94				
Sq. Ft./FTE	840	882	1,494	1,269	1,052	1,052				
Cost/FTE	\$260,630	\$304,576	\$233,389	\$310,103	\$290,750	\$218,405				
Cost/Sq. Ft.	\$310	\$345	\$156	\$244	\$276	\$208				

3



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1 UPDATED ASSETS - PROPERTY PLANT & EQUIPMENT CONTINUITY SCHEDULE

2

3 1. INTRODUCTION

- 4 This Schedule provides information as required under section 2.2.1.2 of the Chapter 2 Filing
- 5 Requirements for Electricity Distribution Rate Applications, as updated on July 12, 2018 and
- 6 addended on July 15, 2019 ("Filing Requirements"). In addition, the amounts for construction
- 7 work-in-progress ("CWIP") have also been provided. In accordance with the Filing
- 8 Requirements, appended to this Schedule are the following:

9

- Attachment 2-2-1(A): OEB Appendix 2-BA 2016 Fixed Asset Continuity Schedule
- Attachment 2-2-1(B): OEB Appendix 2-BA 2017 Fixed Asset Continuity Schedule
- Attachment 2-2-1(C): OEB Appendix 2-BA 2018 Fixed Asset Continuity Schedule
- UPDATED Attachment 2-2-1(D): OEB Appendix 2-BA 2019 Fixed Asset Continuity
 Schedule
- UPDATED Attachment 2-2-1(E): OEB Appendix 2-BA 2020 Fixed Asset Continuity

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- UPDATED Attachment 2-2-1(F): OEB Appendix 2-BA 2021 Fixed Asset Continuity

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- UPDATED Attachment 2-2-1(G): OEB Appendix 2-BA 2022 Fixed Asset Continuity

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- UPDATED Attachment 2-2-1(H): OEB Appendix 2-BA 2023 Fixed Asset Continuity

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- UPDATED Attachment 2-2-1(I): OEB Appendix 2-BA 2024 Fixed Asset Continuity

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- UPDATED Attachment 2-2-1(J): OEB Appendix 2-BA 2025 Fixed Asset Continuity

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1 2. GROSS ASSETS BY FUNCTION

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- 2 Tables 1 and 2 below provide Hydro Ottawa's Gross Assets balance by function for the
- 3 Historical Years 2016-2018, Bridge Years 2019 and 2020, and Test Years 2021-2025. After
- 4 accounting for 2019 actuals, Tables 1 and 2 have been updated for the Historical Years
- 5 2016-2019, Bridge Year 2020, and Test Years 2021-2025.

Table 1 – AS ORIGINALLY SUBMITTED – 2016-2020 Gross Assets Breakdown by

8 **Function (\$'000s)**

	Н	istorical Year	Bridge Years		
Gross Assets	2016	2017	2018	2019	2020
Transmission Plant	\$86,743	\$86,787	\$87,116	\$111,468	\$114,617
Distribution Plant	\$677,307	\$748,804	\$835,567	\$902,780	\$962,291
General Plant	\$158,074	\$177,694	\$189,652	\$275,660	\$294,021
Gross Fixed Assets Before CWIP and Accumulated Depreciation ¹	\$922,124	\$1,013,285	\$1,112,335	\$1,289,908	\$1,370,929
Accumulated Depreciation	\$(111,437)	\$(148,273)	\$(193,957)	\$(234,522)	\$(284,777)
CWIP	\$41,389	\$63,853	\$129,242	\$37,227	\$80,744
TOTAL INCLUDING CWIP ²	\$852,076	\$928,862	\$1,047,620	\$1,092,613	\$1,166,896

Table 1 – UPDATED FOR 2019 ACTUALS – 2016-2020 Gross Assets Breakdown by

11 **Function (\$'000s)**

			Bridge Year		
Gross Assets	2016	2017	2018	2019	2020
Transmission Plant	\$86,743	\$86,787	\$87,116	\$115,600	\$118,748
Distribution Plant	\$677,307	\$748,804	\$835,567	\$908,399	\$970,352
General Plant	\$158,074	\$177,694	\$189,652	\$270,467	\$288,212
Gross Fixed Assets Before CWIP and Accumulated Depreciation ³	\$922,124	\$1,013,285	\$1,112,335	\$1,294,466	\$1,377,314
Accumulated Depreciation	\$(111,437)	\$(148,273)	\$(193,957)	\$(227,434)	\$(277,670)
CWIP	\$41,389	\$63,853	\$129,242	\$30,588	\$71,970
TOTAL INCLUDING CWIP⁴	\$852,076	\$928,862	\$1,047,620	\$1,097,620	\$1,171,612

^{12 &}lt;sup>1</sup> Variances may exist due to rounding.

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

^{13 &}lt;sup>2</sup> Variances may exist due to rounding.

¹⁴ ³ Variances may exist due to rounding.

^{15 4} Variances may exist due to rounding.



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Table 2 – AS ORIGINALLY SUBMITTED – 2021-2025 Gross Assets Breakdown by Function (\$'000s)

	Test Years						
Gross Assets	2021	2022	2023	2024	2025		
Transmission Plant	\$122,864	\$148,476	\$152,078	\$157,508	\$166,731		
Distribution Plant	\$1,025,910	\$1,102,457	\$1,166,737	\$1,233,617	\$1,315,811		
General Plant	\$369,087	\$383,907	\$391,361	\$399,599	\$428,514		
Gross Fixed Assets Before CWIP and Accumulated Depreciation⁵	\$1,517,861	\$1,634,840	\$1,710,176	\$1,790,724	\$1,911,056		
Accumulated Depreciation	\$(334,623)	\$(389,254)	\$(446,435)	\$(505,659)	\$(568,753)		
CWIP	\$51,388	\$29,536	\$40,457	\$54,289	\$27,763		
TOTAL INCLUDING CWIP6	\$1,234,626	\$1,275,123	\$1,304,198	\$1,339,356	\$1,370,066		

Table 2 – UPDATED FOR 2019 ACTUALS – 2021-2025 Gross Assets Breakdown by Function (\$'000s)

	Test Years				
Gross Assets	2021	2022	2023	2024	2025
Transmission Plant	\$126,996	\$152,608	\$156,210	\$161,639	\$170,862
Distribution Plant	\$1,035,800	\$1,114,852	\$1,179,131	\$1,246,012	\$1,328,205
General Plant	\$356,689	\$372,915	\$380,370	\$388,607	\$417,523
Gross Fixed Assets Before CWIP and Accumulated Depreciation ⁷	\$1,519,485	\$1,640,374	\$1,715,712	\$1,796,259	\$1,916,592
Accumulated Depreciation	\$(327,398)	\$(381,867)	\$(438,922)	\$(498,020)	\$(560,987)
CWIP	\$45,054	\$21,918	\$32,839	\$46,671	\$20,144
TOTAL INCLUDING CWIP8	\$1,237,141	\$1,280,426	\$1,309,628	\$1,344,909	\$1,375,747

7 For detailed Fixed Asset Continuity Schedules for the years 2016-2025, please see

8 Attachments 2-2-1:(A) through (J). These Schedules have been updated for the years

9 2019-2025 to account for 2019 actuals, and can be found in UPDATED Attachments 2-2-1:(D)

10 through (J), respectively.

11 ⁵ Variances may exist due to rounding.

^{12 &}lt;sup>6</sup> Variances may exist due to rounding.

^{13 &}lt;sup>7</sup> Variances may exist due to rounding.

^{14 8} Variances may exist due to rounding.



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1 3. GROSS ASSETS BY MAJOR PLANT ACCOUNT

- 2 In accordance with section 2.2.1.2 of the Filing Requirements, Table 3 provides Gross Assets
- 3 balance by major plant account for each functionalized plant item, for Historical Years
- 4 2016-2018 and for Bridge Years 2019 and 2020. Table 3 has been updated to account for 2019
- 5 actuals and includes Historical Years 2016-2019 and Bridge Year 2020.



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Table 3 – AS ORIGINALLY SUBMITTED – 2016-2020 Gross Assets Breakdown by Major

2 Plant Account

3 Organized by Uniform System of Account (\$'000s)

USofA	Description	Н	listorical Years	Bridge Years				
USOTA	Description	2016	2017	2018	2019	2020		
1815 Transformer Station Equipment >50 kV		\$86,743	\$86,786	\$87,116	\$111,468	\$114,617		
Subtotal 1	Transmission Plant	\$86,743	\$86,786	\$87,116	\$111,468	\$114,617		
1612	Land Rights	\$2,283	\$2,294	\$2,288	\$2,288	\$2,297		
1805	Land	\$4,645	\$4,649	\$4,652	\$4,653	\$4,654		
1808	Buildings	\$27,727	\$28,802	\$29,663	\$30,189	\$30,897		
1820	Distribution Station Equipment <50 kV	\$90,031	\$105,595	\$116,484	\$136,392	\$142,155		
1830	Poles, Towers & Fixtures	\$107,430	\$117,400	\$128,239	\$135,443	\$144,524		
1835	Overhead Conductors & Devices	\$99,986	\$108,617	\$121,174	\$130,158	\$146,838		
1840	Underground Conduit	\$123,465	\$144,674	\$183,207	\$209,553	\$232,720		
1845	Underground Conductors & Devices	\$121,891	\$143,156	\$158,562	\$174,458	\$198,932		
1850	Line Transformers	\$70,722	\$79,264	\$87,689	\$92,878	\$100,712		
1855	Services (Overhead & Underground)	\$53,864	\$61,034	\$67,353	\$69,941	\$74,510		
1860	Meters	\$38,426	\$40,578	\$42,379	\$47,112	\$51,769		
1970	Load Management Controls Customer Premises	\$134	\$134	\$134	\$0	\$147		
1975	Load Management Controls Utility Premises	\$18	\$18	\$0	\$0	\$90		
1980	System Supervisor Equipment	\$6,817	\$7,718	\$11,472	\$13,759	\$14,773		
2440	Deferred Revenue	\$(70,132)	\$(95,130)	\$(117,729)	\$(144,044)	\$(182,727)		
Subtotal I	Distribution Plant	\$677,307	\$748,803	\$835,567	\$902,780	\$962,291		
1609	Capital Contributions Paid	\$20,089	\$20,776	\$22,976	\$35,051	\$35,961		
1611	Computer Software	\$51,958	\$64,972	\$66,629	\$67,874	\$80,905		
1905	Land	\$20,356	\$20,560	\$20,560	\$19,942	\$19,942		
1908	Buildings & Fixtures	\$32,327	\$32,433	\$35,197	\$94,603	\$95,284		
1915	Office Furniture and Equipment	\$1,330	\$1,407	\$1,616	\$4,778	\$4,879		
1920	Computer Equipment - Hardware	\$7,346	\$6,804	\$8,600	\$13,652	\$15,255		



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USofA	Description (Cont.d.)	Histo	rical Years (Co	Bridge Years (Cont'd)				
(Cont'd)	Description (Cont'd)	2016	2017	2018	2019	2020		
1930	Transportation Equipment	\$13,566	\$17,351	\$17,504	\$18,464	\$18,617		
1935	Stores Equipment	\$6	\$0	\$0	\$562	\$562		
1940	Tools, Shop & Garage Equipment	\$4,064	\$3,543	\$4,196	\$4,681	\$5,131		
1945	Measurement & Testing Equipment	\$229	\$215	\$215	\$252	\$252		
1950	Power Operated Equipment	\$3,252	\$1,064	\$914	\$1,098	\$1,369		
1955	Communications Equipment	\$3,302	\$8,318	\$10,990	\$14,447	\$15,462		
1960	Miscellaneous Equipment	\$249	\$250	\$255	\$256	\$402		
Subtotal (General Plant	\$158,074	\$177,693	\$189,652	\$275,660	\$294,021		
Accumula	ted Depreciation	\$(111,437)	\$(148,273)	\$(193,957)	\$(234,522)	\$(284,777)		
	GROSS FIXED ASSETS BEFORE CWIP		\$865,009	\$918,378	\$1,055,386	\$1,086,152		
2055	Construction Work-in-Progress \$41,389 \$63,853 \$129		\$129,242	\$37,227	\$80,744			
	TOTAL INCLUDING CWIP	\$852,076	\$928,862	\$1,047,620	\$1,092,613	\$1,166,896		



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Table 3 – UPDATED FOR 2019 ACTUALS – 2016-2020 Gross Assets Breakdown by Major

2 Plant Account

3 Organized by Uniform System of Account (\$'000s)

USofA	Description		Historical Years								
		2016	2017	2018	2019	2020					
1815	Transformer Station Equipment >50 kV	\$86,743	\$86,786	\$87,116	\$115,600	\$118,748					
Subtotal Transmission Plant		\$86,743	\$86,786	\$87,116	\$115,600	\$118,748					
1612	Land Rights	\$2,283	\$2,294	\$2,288	\$2,525	\$2,533					
1805	Land	\$4,645	\$4,649	\$4,652	\$4,660	\$4,661					
1808	Buildings	\$27,727	\$28,802	\$29,663	\$29,687	\$30,395					
1820	Distribution Station Equipment <50 kV	\$90,031	\$105,595	\$116,484	\$129,195	\$134,959					
1830	Poles, Towers & Fixtures	\$107,430	\$117,400	\$128,239	\$137,470	\$146,551					
1835	Overhead Conductors & Devices	\$99,986	\$108,617	\$121,174	\$128,553	\$145,233					
1840	Underground Conduit	\$123,465	\$144,674	\$183,207	\$216,884	\$240,051					
1845	Underground Conductors & Devices	\$121,891	\$143,156	\$158,562	\$175,231	\$199,704					
1850	Line Transformers	\$70,722	\$79,264	\$87,689	\$94,891	\$102,726					
1855	Services (Overhead & Underground)	\$53,864	\$61,034	\$67,353	\$71,087	\$75,656					
1860	Meters	\$38,426	\$40,578	\$42,379	\$47,199	\$51,856					
1970	Load Management Controls Customer Premises	\$134	\$134	\$134	\$0	\$0					
1975	Load Management Controls Utility Premises	\$18	\$18	\$0	\$0	\$0					
1980	System Supervisor Equipment	\$6,817	\$7,718	\$11,472	\$13,736	\$14,750					
2440	Deferred Revenue	\$(70,132)	\$(95,130)	\$(117,729)	\$(142,719)	\$(178,723)					
Subtotal D	Distribution Plant	\$677,307	\$748,803	\$835,567	\$908,399	\$970,352					
1609	Capital Contributions Paid	\$20,089	\$20,776	\$22,976	\$34,685	\$35,595					
1611	Computer Software	\$51,958	\$64,972	\$66,629	\$66,604	\$79,634					
1905	Land	\$20,356	\$20,560	\$20,560	\$19,942	\$19,942					
1908	Buildings & Fixtures	\$32,327	\$32,433	\$35,197	\$94,651	\$95,004					
1915	Office Furniture and Equipment	\$1,330	\$1,407	\$1,616	\$4,345	\$4,445					
1920	Computer Equipment - Hardware	\$7,346	\$6,804	\$8,600	\$10,046	\$11,506					



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USofA	Description (Contid)	Histo	rical Years (Co	Bridge Years (Cont'd)				
(Cont'd)	Description (Cont'd)	2016	2017	2018	2019	2020		
1930	Transportation Equipment	\$13,566	\$17,351	\$17,504	\$18,839	\$18,992		
1935	Stores Equipment	\$6	\$0	\$0	\$561	\$561		
1940	Tools, Shop & Garage Equipment	\$4,064	\$3,543	\$4,196	\$3,998	\$4,447		
1945	Measurement & Testing Equipment	\$229	\$215	\$215	\$209	\$209		
1950	Power Operated Equipment	\$3,252	\$1,064	\$914	\$1,122	\$1,393		
1955	Communications Equipment	\$3,302	\$8,318	\$10,990	\$15,266	\$16,279		
1960	Miscellaneous Equipment	\$249	\$250	\$255	\$199	\$205		
Subtotal (General Plant	\$158,074	\$177,693	\$189,652	\$270,467	\$288,212		
Accumula	ated Depreciation	\$(111,437)	\$(148,273)	\$(193,957)	\$(227,434)	\$(277,670)		
	GROSS FIXED ASSETS BEFORE CWIP	\$810,687	\$865,009	\$918,378	\$1,067,032	\$1,099,642		
2055	Construction Work-in-Progress	Construction Work-in-Progress \$41,389 \$63,853 \$129,24		\$129,242	\$30,588	\$71,970		
	TOTAL INCLUDING CWIP	\$852,076	\$928,862	\$1,047,620	\$1,097,620	\$1,171,613		

- 2 In accordance with section 2.2.1.2 of the Filing Requirements, Table 4 below provides Gross
- 3 Assets balance by major plant account for each functionalized plant item for Test Years
- 4 2021-2025. The table has been updated to account for 2019 actuals.



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Table 4 – AS ORIGINALLY SUBMITTED – 2021-2025 Gross Assets Breakdown by Major

Plant Account

3 Organized by Uniform System of Account (\$'000s)

				Test Years				
USofA	Description	2021	2022	2023	2024	2025		
1815	Transformer Station Equipment >50 kV	\$122,864	64 \$148,476 \$1		\$152,078 \$157,508			
Subtota	Transmission Plant	\$122,864	\$148,476	\$152,078	\$157,508	\$166,731		
1612	Land Rights	\$2,310	\$2,323	\$2,335	\$2,348	\$2,360		
1805	Land	\$4,655	\$4,818	\$4,818	\$4,818	\$5,597		
1808	Buildings	\$31,622	\$39,988	\$40,522	\$41,453	\$42,869		
1820	Distribution Station Equipment <50 kV	\$155,798	\$165,707	\$169,737	\$181,635	\$208,287		
1830	Poles, Towers & Fixtures	\$152,926	\$161,774	\$171,336	\$179,209	\$186,899		
1835	Overhead Conductors & Devices	\$158,007	\$171,112	\$184,464	\$196,200	\$207,644		
1840	Underground Conduit	\$258,416	\$280,641	\$301,045	\$319,592	\$338,120		
1845	Underground Conductors & Devices	\$224,573	\$245,221	\$263,683	\$280,969	\$298,142		
1850	Line Transformers	\$108,857	\$116,780	\$124,383	\$131,512	\$138,655		
1855	Services (Overhead & Underground)	\$78,914	\$83,478	\$88,074	\$92,510	\$96,939		
1860	Meters	\$58,145	\$63,944	\$69,662	\$75,920	\$81,661		
1970	Load Management Controls Customer Premises	\$855	\$919	\$919	\$919	\$919		
1975	Load Management Controls Utility Premises	\$484	\$533	\$533	\$533	\$533		
1980	System Supervisor Equipment	\$16,350	\$18,052	\$19,044	\$20,139	\$21,672		
2440	Deferred Revenue	\$(226,002)	\$(252,833)	\$(273,818)	\$(294,138)	\$(314,486)		
Subtotal	Distribution Plant	\$1,025,910	\$1,102,457	\$1,166,737	\$1,233,619	\$1,315,811		
1609	Capital Contributions Paid	Paid \$87,185		\$87,495	\$89,625	\$96,925		
1611	Computer Software	\$91,850	\$98,172	\$101,762	\$104,435	\$121,290		
1905	Land	\$19,942	\$19,942	\$19,942	\$19,942	\$19,942		
1908	Buildings & Fixtures	\$97,627	\$98,054	\$98,407	\$98,760	\$99,112		
1915	Office Furniture and Equipment	\$4,954	\$5,030	\$5,080	\$5,131	\$5,181		



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USofA	Description (Oscalal)	Test Years (Cont'd)											
(Cont'd)	Description (Cont'd)	2021	2022	2023	2024	2025							
1920	Computer Equipment - Hardware	\$16,837	\$19,455	\$20,616	\$21,504	\$23,077							
1930	Transportation Equipment	\$22,920	\$26,097	\$26,829	\$27,726	\$27,825							
1935	5 Stores Equipment		\$562	\$562	\$562	\$562							
1940	Tools, Shop & Garage Equipment	\$5,604	\$6,079	\$6,540	\$7,005	\$7,474							
1945	Measurement & Testing Equipment	\$252	\$252	\$252	\$252	\$252							
1950	Power Operated Equipment	\$1,482	\$1,482	\$1,597	\$1,597	\$2,055							
1955	Communications Equipment	\$18,972	\$20,443	\$21,318	\$22,099	\$23,833							
1960	Miscellaneous Equipment	\$900	\$944	\$961	\$961	\$986							
Subtota	General Plant	\$369,087	\$383,907	\$391,361	\$399,599	\$428,514							
Accumu	lated Depreciation	\$(334,623)	\$(389,254)	\$(446,435)	\$(505,659)	\$(568,753)							
GROSS FIXED ASSETS BEFORE CWIP		\$1,183,238	\$1,245,586	\$1,263,741	\$1,285,067	\$1,342,303							
2055	Construction Work-in-Progress	\$51,388	\$29,536	\$40,457	\$54,289	\$27,763							
TOTAL I	NCLUDING CWIP	\$1,234,626	\$1,234,626 \$1,275,123 \$1,304,198 \$1,339,										



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Table 4 – UPDATED FOR 2019 ACTUALS – 2021-2025 Gross Assets Breakdown by Major

Plant Account

Organized by Uniform System of Account (\$'000s)

				Test Years					
USofA	Description	2021	2022	2023	2024	2025			
1815	Transformer Station Equipment >50 kV	\$126,966	\$152,608	\$156,210	\$156,210 \$161,639				
Subtotal	Transmission Plant	\$126,966	\$152,608	\$156,210	\$161,639	\$170,862			
1612	Land Rights	\$2,546	\$2,560	\$2,572	\$2,584	\$2,597			
1805	Land	\$4,662	\$4,825	\$4,825	\$4,825	\$5,604			
1808	Buildings	\$31,120	\$39,486	\$40,020	\$40,951	\$42,367			
1820	Distribution Station Equipment <50 kV	\$148,602	\$158,511	\$162,541	\$174,439	\$201,091			
1830	Poles, Towers & Fixtures	\$154,953	\$163,801	\$173,363	\$181,236	\$188,926			
1835	Overhead Conductors & Devices	\$156,403	\$169,507	\$182,859	\$194,596	\$206,039			
1840	Underground Conduit	\$265,747	\$287,972	\$308,375	\$326,922	\$345,451			
1845	Underground Conductors & Devices	\$225,346	\$245,994	\$264,456	\$281,741	\$298,915			
1850	Line Transformers	\$110,871	\$118,794	\$126,397	\$133,525	\$140,668			
1855	Services (Overhead & Underground)	80,060	\$84,624	\$89,220	\$93,656	\$98,085			
1860	Meters	\$58,081	\$63,967	\$69,685	\$75,943	\$81,684			
1970	Load Management Controls Customer Premises	\$0	\$351	\$351	\$351	\$351			
1975	Load Management Controls Utility Premises	\$0	\$203	\$203	\$203	\$203			
1980	System Supervisor Equipment	\$16,327	\$18,028	\$19,021	\$20,116	\$21,649			
2440	Deferred Revenue	\$(218,918)	\$(243,771)	\$(264,757)	\$(285,076)	\$(305,425)			
Subtotal	Distribution Plant	\$1,035,800	\$1,114,852	\$1,179,131	\$1,246,012	\$1,328,205			
1609	Capital Contributions Paid	\$86,819	\$87,029	\$87,129	\$89,259	\$96,559			
1611	Computer Software	\$86,623	\$93,009	\$96,594	\$99,267	\$116,121			
1905	Land	\$19,942	\$19,942	\$19,942	\$19,942	\$19,942			
1908	Buildings & Fixtures	\$95,356	\$96,951	\$97,304	\$97,656	\$98,009			
1915	Office Furniture and Equipment	\$4,521	\$4,597	\$4,647	\$4,697	\$4,748			



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USofA	Description (Contid)	Test Years (Cont'd)											
(Cont'd)	Description (Cont'd)	2021	2022	2023	2024	2025							
1920	Computer Equipment - Hardware		\$15,488	\$16,648	\$17,536	\$19,110							
1930	Transportation Equipment	\$23,295	\$26,472	\$27,204	\$28,101	\$28,200							
1935	Stores Equipment	\$561	\$561	\$561	\$561	\$561							
1940	Tools, Shop & Garage Equipment		\$5,395	\$5,857	\$6,322	\$6,791							
1945	Measurement & Testing Equipment		\$209	\$209	\$209	\$209							
1950	Power Operated Equipment	\$1,505	\$1,505	\$1,621	\$1,621	\$2,078							
1955	Communications Equipment	\$19,755	\$21,243	\$22,117	\$22,899	\$24,633							
1960	Miscellaneous Equipment	\$212	\$520	\$537	\$537	\$562							
Subtotal	General Plant	\$356,689	\$372,915	\$380,370	\$388,607	\$417,523							
Accumu	lated Depreciation	\$(327,398)	\$(381,867)	\$(438,922)	\$(498,020)	\$(560,987)							
GROSS	FIXED ASSETS BEFORE CWIP	\$1,192,087	\$1,258,508	\$1,276,789	\$1,298,238	\$1,355,603							
2055	Construction Work-in-Progress		\$21,918	\$32,839	\$46,671	\$20,144							
TOTAL I	NCLUDING CWIP	\$1,237,141	\$1,280,426	\$1,309,627	\$1,344,909	\$1,375,747							

2 4. SIGNIFICANT IN-SERVICE ADDITIONS

- 3 4.1. HISTORICAL YEARS 2016-2018 AND BRIDGE YEARS 2019-2020
- 4 (UPDATED: HISTORICAL YEARS 2016-2019 AND BRIDGE YEAR 2020)
- 5 The major capital projects that were executed, or are set to be executed, during this period are
- 6 outlined below in Table 5, which has been updated to account for 2019 actuals. Background
- 7 information on these projects can be found in Attachment 2-4-3(E): Material Investments.



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Table 5 – AS ORIGINALLY SUBMITTED – 2016-2020 Overview of Significant In-Service Additions (\$'000,000s)

Description/Type	Project	Cost
Station growth driven by capacity	Merivale MTS Station Renewal	\$15.9
constraints	Richmond South Station Upgrade	\$13.4
Other distribution system expansions/upgrades to provide	Residential, Commercial, System Expansion, and Infill & Upgrade Capital Programs	\$68.7
basic levels of service and supply growing communities	Plant Relocation	\$13.6
	Pole Renewal	\$44.8
Ongoing replacement of existing	Cable Replacement and Renewal	\$29.9
aging distribution system to minimize failure risk	Emergency Renewal	\$34.2
	Critical Renewal	\$11.7
	Fibre Optic Network	\$18.9
Station protection and control	Overbrook SO Station Switchgear Replacement	\$13.3
renewal projects	System Voltage Conversion	\$13.0
	Woodroffe Station Switchgear Replacement	\$11.1
	New Administrative Office and Operations Facilities ⁹	\$79.9
Othor	Enterprise Resource Planning System Upgrade	\$11.3
Other	Customer Care and Billing System Upgrades	\$8.1
	Fleet Replacement ¹⁰	\$6.3

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⁴ Land is excluded. For additional information on this project, please see Attachment 2-1-1(A): New Administrative

⁵ Office and Operations Facilities.
6 Office and Operations Facilities.
10 For additional information, please see Attachment 2-4-3(F): Fleet Replacement Program.

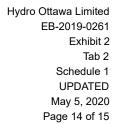




Table 5 – UPDATED FOR 2019 ACTUALS – 2016-2020 Overview of Significant In-Service Additions (\$'000,000s)

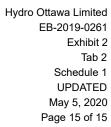
Description/Type	Project	Cost
Station growth driven by capacity	Merivale MTS Station Renewal	\$16.0
constraints	Richmond South Station Upgrade	\$13.1
Other distribution system expansions/upgrades to provide	Residential, Commercial, System Expansion, and Infill & Upgrade Capital Programs	\$75.9
basic levels of service and supply growing communities	Plant Relocation	\$15.5
	Pole Renewal	\$43.3
Ongoing replacement of existing	Cable Replacement and Renewal	\$31.1
aging distribution system to minimize failure risk	Emergency Renewal	\$38.0
	Critical Renewal	\$13.2
	Fibre Optic Network	\$18.7
Station protection and control	Overbrook SO Station Switchgear Replacement	\$13.3
renewal projects	System Voltage Conversion	\$11.9
	Woodroffe Station Switchgear Replacement	\$11.1
	New Administrative Office and Operations Facilities ¹¹	\$79.9
Other	Enterprise Resource Planning System Upgrade	\$11.3
Ottlei	Customer Care and Billing System Upgrades	\$8.1
	Fleet Replacement ¹²	\$6.7

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- 4 For 2016-2020, Hydro Ottawa is projecting Capital Additions to exceed the overall envelope by
- 5 \$54.1M. After accounting for 2019 actual Capital Additions, Hydro Ottawa is projecting Capital
- 6 Additions to exceed the overall envelope by \$70.4M. Additional details, including a variance
- 7 analysis, are available in **UPDATED** Exhibit 2-4-1: Capital Expenditure Summary.

^{8 11} Land is excluded. For additional information on this project, please see UPDATED Attachment 2-1-1(A): New

⁹ Administrative Office and Operations Facilities.
10 12 For additional information, please see Attachment 2-4-3(F): Fleet Replacement Program.





1 4.2. TEST YEARS 2021-2025

- 2 The major capital projects planned for the 2021-2025 period are outlined below in Table 6.
- 3 Background information on these projects can be found in Attachment 2-4-3(E): Material
- 4 Investments.

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Table 6 – 2021-2025 Overview of Significant In-Service Additions (\$'000,000s)

Description/Type	Project	Cost
Station growth driven by	Cambrian MTS	\$82.4 ¹³
capacity constraints	New East Station	\$30.714
Other distribution system expansion/upgrade to provide	Residential, Commercial, System Expansion, and Infill & Upgrade Capital Programs	\$67.6
basic levels of service and supply growing communities	Plant Relocation	\$11.0
	Pole Renewal	\$33.7
Ongoing replacement of	Cable Replacement and Renewal	\$40.7
existing aging distribution system to minimize failure risk	Emergency Renewal	\$22.4
	Critical Renewal	\$21.5
	Riverdale TS Station Switchgear Upgrade	\$14.2 ¹⁵
	Fisher Station Rebuild	\$9.6
Station protection and control renewal projects	Bells Corners Rebuild	\$10.3
	Overbrook TO Station Switchgear Replacement	\$7.1 ¹⁶
	Dagmar Station Rebuild	\$6.0
Other	Fleet Replacement ¹⁷	\$16.6
Oulei	Enterprise Resource Planning System Upgrade	\$12.0

⁸ ¹³ Cost includes Connection Cost Recovery Agreement ("CCRA") payments to Hydro One Networks Inc. ("HONI").

^{9 14} Ibid.

^{10 &}lt;sup>15</sup> Cost includes CCRA payments to HONI.

^{11 &}lt;sup>16</sup> *Ibid*.

¹² For additional information, please see Attachment 2-4-3(F): Fleet Replacement Program.

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UPDATED - Appendix 2-BA Fixed Asset Continuity Schedule 1

Accounting Standard

MIFRS

2020 Year

				Cost				Accumulated Depreciation									
CCA Class 2	OEB Account 3	Description 3	Opening Balance	Additions 4	Disposals 6	Closing Balance		Opening Balance Additions		Additions	tions Disposals 6		Closing Balance		Ne	t Book Value	
	1609	Capital Contributions Paid	\$ 34,685,433	\$ 910,000	\$ -	\$ 35,595,433		-\$	2,183,096	-\$	790,975	\$	-	-\$	2,974,071	\$	32,621,362
12	1611	Computer Software (Formally known as Account 1925)	\$ 66,603,570	\$ 13,030,880	\$ -	\$ 79,634,450		-\$	39,260,350	-\$	6,468,113	\$	-	-\$	45,728,463	\$	33,905,987
CEC	1612	Land Rights (Formally known as Account 1906)	\$ 2,524,895	\$ 8,306	\$ -	\$ 2,533,201		-\$	337,574	-\$	59,409	\$	-	-\$	396,983	\$	2,136,218
N/A	1805	Land	\$ 4,659,565	\$ 1,047	\$ -	\$ 4,660,612		\$	-			\$	-	\$	-	\$	4,660,612
47	1808	Buildings	\$ 29,686,977	\$ 707,754	\$ -	\$ 30,394,731		-\$	4,719,737	-\$	802,687	\$	-	-\$	5,522,424	\$	24,872,307
13	1810	Leasehold Improvements	\$ -		\$ -	\$ -		\$	-			\$	-	\$	-	\$	-
47	1815	Transformer Station Equipment >50 kV	\$ 115,599,760	\$ 3,148,680	\$ -	\$ 118,748,440		-\$	17,872,695	-\$	3,669,308	\$	-	-\$	21,542,003	\$	97,206,437
47	1820	Distribution Station Equipment <50 kV	\$ 129,195,408	\$ 5,860,007	-\$ 96,181	\$ 134,959,234		-\$	21,858,595	-\$	4,450,661	\$	55,028	-\$	26,254,228	\$	108,705,006
47	1825	Storage Battery Equipment	\$ -		\$ -	\$ -		\$	-			\$	-	\$	-	\$	-
47	1830	Poles, Towers & Fixtures	\$ 137,470,488	\$ 9,394,503	-\$ 313,703	\$ 146,551,288		-\$	16,106,354	-\$	3,480,842	\$	30,864	-\$	19,556,332	\$	126,994,956
47	1835	Overhead Conductors & Devices	\$ 128,553,082	\$ 16,910,513	-\$ 230,544	\$ 145,233,051		-\$	15,458,979	-\$	3,592,858	\$	26,635	-\$	19,025,202	\$	126,207,849
47	1840	Underground Conduit	\$ 216,883,550	\$ 23,166,955	\$ -	\$ 240,050,505		-\$	23,169,374	-\$	6,137,186	\$	-	-\$	29,306,560	\$	210,743,945
47	1845	Underground Conductors & Devices	\$ 175,230,833	\$ 24,832,592	-\$ 359,069	\$ 199,704,356		-\$	25,110,445	-\$	5,978,466	\$	64,812	-\$	31,024,099	\$	168,680,257
47	1850	Line Transformers	\$ 94,890,921	\$ 8,055,161	-\$ 220,567	\$ 102,725,515		-\$	13,957,006	-\$	3,187,549	\$	40,727	-\$	17,103,828	\$	85,621,687
47	1855	Services (Overhead & Underground)	\$ 71,087,401	\$ 4,568,833	\$ -	\$ 75,656,234	7	-\$	9,073,460	-\$	1,911,293	\$	-	-\$	10,984,753	\$	64,671,481
47	1860	Meters	\$ -		\$ -	\$ -		\$	-			\$	-	\$	-	\$	-
47	1860	Meters (Smart Meters)	\$ 47,198,912	\$ 5,077,444	-\$ 420,692	\$ 51,855,664		-\$	21,786,673	-\$	5,049,583	\$	156,744	-\$	26,679,512	\$	25,176,152
N/A	1905	Land	\$ 19,942,005		\$ -	\$ 19,942,005		-\$	2,707	-\$	4,047	\$	-	-\$	6,754	\$	19,935,251
47	1908	Buildings & Fixtures	\$ 94,650,962	\$ 352,679	\$ -	\$ 95,003,641		-\$	5,048,771	-\$	3,025,591	\$	-	-\$	8,074,362	\$	86,929,279
13	1910	Leasehold Improvements	\$ -		\$ -	\$ -		\$	-			\$	-	\$	-	\$	-
8	1915	Office Furniture & Equipment (10 years)	\$ 4,344,722	\$ 100,766	\$ -	\$ 4,445,488		-\$	713,786	-\$	425,555	\$	-	-\$	1,139,341	\$	3,306,147
8	1915	Office Furniture & Equipment (5 years)	\$ -		\$ -	\$ -		\$	-			\$	-	\$	-	\$	-
10	1920	Computer Equipment - Hardware	\$ -		\$ -	\$ -		\$	-			\$	-	\$	-	\$	-
45	1920	Computer EquipHardware(Post Mar. 22/04)	\$ -		\$ -	\$ -		\$	-			\$	-	\$	-	\$	-
50	1920	Computer EquipHardware(Post Mar. 19/07)	\$ 10,046,414	\$ 1,459,982	\$ -	\$ 11,506,396		-\$	3,432,714	-\$	1,762,186	\$	-	-\$	5,194,900	\$	6,311,496
10	1930	Transportation Equipment	\$ 18,838,678	\$ 180,773	-\$ 27,765	\$ 18,991,686		-\$	8,085,916	-\$	1,560,773	\$	22,058	-\$	9,624,631	\$	9,367,055
8	1935	Stores Equipment	\$ 560,703		\$ -	\$ 560,703		-\$	28,035	-\$	56,225	\$	-	-\$	84,260	\$	476,443
8	1940	Tools, Shop & Garage Equipment	\$ 3,997,781	\$ 449,596	\$ -	\$ 4,447,377	7	-\$	1,864,054	-\$	446,365	\$	-	-\$	2,310,419	\$	2,136,958
8	1945	Measurement & Testing Equipment	\$ 209,467		\$ -	\$ 209,467	1	-\$	140,362	-\$	23,512	\$	-	-\$	163,874	\$	45,593
8	1950	Power Operated Equipment	\$ 1,122,129	\$ 354,695	-\$ 83,875	\$ 1,392,949		-\$	415,103	-\$	89,524	\$	71,355	-\$	433,272	\$	959,677
8	1955	Communications Equipment	\$ 15,266,072	\$ 1,012,516	\$ -	\$ 16,278,588		-\$	3,801,116	-\$	1,560,031	\$	-	-\$	5,361,147	\$	10,917,441

Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 2 Schedule 1 Attachment D UPDATED May 5, 2020 Page 2 of 2

8	1955	Communication Equipment (Smart Meters)	\$ -		\$ -	\$	-		\$ -		\$ -	\$	-	\$	-
8	1960	Miscellaneous Equipment	\$ 198,958	\$ 6,099	\$ -	\$	205,057	-	\$ 134,735	-\$ 25,019	\$ -	-\$	159,754	\$	45,303
47	1970	Load Management Controls Customer Premises	\$ -	\$ -	\$ -	\$	-		\$ -	\$ -	\$ -	\$	-	\$	-
47	1975	Load Management Controls Utility Premises	\$ -	\$ -	\$ -	\$	-		\$ -	\$ -	\$ -	\$	-	\$	-
47	1980	System Supervisor Equipment	\$ 13,736,173	\$ 1,013,957	\$ -	\$	14,750,130	-3	\$ 4,769,538	-\$ 1,235,550	\$ -	-\$	6,005,088	\$	8,745,042
47	1985	Miscellaneous Fixed Assets	\$ -		\$ -	\$	-		\$ -		\$ -	\$	-	\$	-
47	1990	Other Tangible Property	\$ -		\$ -	\$	-		\$ -		\$ -	\$	-	\$	-
47	1995	Contributions & Grants	\$ -		\$ -	\$	-		\$ -		\$ -	\$	-	\$	-
47	2440	Deferred Revenue5	-\$ 142,719,366	-\$ 36,003,198	\$ -	-\$	178,722,564		\$ 11,897,528	\$ 5,089,115	\$ -	\$	16,986,643	-\$	161,735,921
						\$	-					\$	-	\$	-
		Sub-Total	\$ 1,294,465,493	\$ 84,600,540	-\$ 1,752,397	\$	1,377,313,637	-	\$ 227,433,647	-\$ 50,704,193	\$ 468,224	-\$ 2	77,669,616	\$	1,099,644,020
		Less Socialized Renewable Energy Generation Investments (input as negative)				\$	-					\$	-	\$	-
		Less Other Non Rate-Regulated Utility Assets (input as negative)				\$	-					\$	-	\$	-
		Total PP&E	\$ 1,294,465,493	\$ 84,600,540	-\$ 1,752,397	\$	1,377,313,637	-	\$ 227,433,647	-\$ 50,704,193	\$ 468,224	-\$ 2	77,669,616	\$	1,099,644,020
		Depreciation Expense adj. from gain or los	ss on the retirem	ent of assets (pool of like as	sset	s), if applicable	6							<u> </u>
		Total								-\$ 50,704,193					

Less: Fully Allocated Depreciation

ŀ	10	Transportation	Transportation	
Į	8	Stores Equipment	Stores Equipment	
			Net Depreciation	-\$ 50,704,193

Notes:

- Tables in the format outlined above covering all fixed asset accounts should be submitted for the Test Year, Bridge Year and all relevant historical years. At a minimum, the applicant must provide data for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.
- The "CCA Class" for fixed assets should generally agree with the CCA Class used for tax purposes in Tax Returns. Fixed Assets sub-components may be used where the underlying asset components are classified under multiple CCA Classes for tax purposes. If an applicant uses any different classes from those shown in the table, an explanation should be provided. (also see note 3).
- 3 The table may need to be customized for a utility's asset categories or for any new asset accounts announced or authorized by the OEB.
- 4 The additions in column (E) must not include construction work in progress (CWIP).
- 5 Effective on the date of IFRS adoption, customer contributions will no longer be recorded in Account 1995 Contributions & Grants, but will be recorded in Account 2440, Deferred Revenues.
- The applicant must ensure that all asset disposals have been clearly identified in the Chapter 2 Appendices for all historic, bridge and test years. Where a distributor for general financial reporting purposes under IFRS has accounted for the amount of gain or loss on the retirement of assets in a pool of like assets as a charge or credit to income, for reporting and rate application filings, the distributor shall reclassify such gains and losses as depreciation expense, and disclose the amount separately.

Hydro Ottawa Limited
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Exhibit 2
Tab 2
Schedule 1
Attachment E
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May 5, 2020
Page 1 of 2

UPDATED - Appendix 2-BA Fixed Asset Continuity Schedule 1

Accounting Standard

MIFRS

Year 2020

			Cost													
CCA Class 2	OEB Account 3	Description 3	Opening Balance	Additions 4	Disposals 6	Closing Balance	•		Opening Balance			Closing Balance	Ne	t Book Value		
	1609	Capital Contributions Paid	\$ 34,685,433	\$ 910,000	\$ -	\$ 35,595,433	3	-\$	2,183,096	-\$	790,975	\$ -	-\$	2,974,071	\$	32,621,362
12	1611	Computer Software (Formally known as Account 1925)	\$ 66,603,570	\$ 13,030,880	\$ -	\$ 79,634,450	,	-\$	39,260,350	-\$	6,468,113	\$ -	-\$	45,728,463	\$	33,905,987
CEC	1612	Land Rights (Formally known as Account 1906)	\$ 2,524,895	\$ 8,306	\$ -	\$ 2,533,201		-\$	337,574	-\$	59,409	\$ -	-\$	396,983	\$	2,136,218
N/A	1805	Land	\$ 4,659,565	\$ 1,047	\$ -	\$ 4,660,612	2	\$	-			\$ -	\$	-	\$	4,660,612
47	1808	Buildings	\$ 29,686,977	\$ 707,754	\$ -	\$ 30,394,731		-\$	4,719,737	-\$	802,687	\$ -	-\$	5,522,424	\$	24,872,307
13	1810	Leasehold Improvements	\$ -		\$ -	\$ -		\$	-			\$ -	\$	-	\$	-
47	1815	Transformer Station Equipment >50 kV	\$ 115,599,760	\$ 3,148,680	\$ -	\$ 118,748,440)	-\$	17,872,695	-\$	3,669,308	\$ -	-\$	21,542,003	\$	97,206,437
47	1820	Distribution Station Equipment <50 kV	\$ 129,195,408	\$ 5,860,007	-\$ 96,181	\$ 134,959,234	F	-\$	21,858,595	-\$	4,450,661	\$ 55,028	-\$	26,254,228	\$	108,705,006
47	1825	Storage Battery Equipment	\$ -		\$ -	\$ -		\$	-			\$ -	\$	-	\$	-
47	1830	Poles, Towers & Fixtures	\$ 137,470,488	\$ 9,394,503	-\$ 313,703	\$ 146,551,288	3	-\$	16,106,354	-\$	3,480,842	\$ 30,864	-\$	19,556,332	\$	126,994,956
47	1835	Overhead Conductors & Devices	\$ 128,553,082	\$ 16,910,513	-\$ 230,544	\$ 145,233,051	П	-\$	15,458,979	-\$	3,592,858	\$ 26,635	-\$	19,025,202	\$	126,207,849
47	1840	Underground Conduit	\$ 216,883,550	\$ 23,166,955	\$ -	\$ 240,050,505	5	-\$	23,169,374	-\$	6,137,186	\$ -	-\$	29,306,560	\$	210,743,945
47	1845	Underground Conductors & Devices	\$ 175,230,833	\$ 24,832,592	-\$ 359,069	\$ 199,704,356	3	-\$	25,110,445	-\$	5,978,466	\$ 64,812	-\$	31,024,099	\$	168,680,257
47	1850	Line Transformers	\$ 94,890,921	\$ 8,055,161	-\$ 220,567	\$ 102,725,515	5	-\$	13,957,006	-\$	3,187,549	\$ 40,727	-\$	17,103,828	\$	85,621,687
47	1855	Services (Overhead & Underground)	\$ 71,087,401	\$ 4,568,833	\$ -	\$ 75,656,234	F	-\$	9,073,460	-\$	1,911,293	\$ -	-\$	10,984,753	\$	64,671,481
47	1860	Meters	\$ -		\$ -	\$ -		\$	-			\$ -	\$	-	\$	-
47	1860	Meters (Smart Meters)	\$ 47,198,912	\$ 5,077,444	-\$ 420,692	\$ 51,855,664	ŀ	-\$	21,786,673	-\$	5,049,583	\$ 156,744	-\$	26,679,512	\$	25,176,152
N/A	1905	Land	\$ 19,942,005		\$ -	\$ 19,942,005	5	-\$	2,707	-\$	4,047	\$ -	-\$	6,754	\$	19,935,251
47	1908	Buildings & Fixtures	\$ 94,650,962	\$ 352,679	\$ -	\$ 95,003,641	П	-\$	5,048,771	-\$	3,025,591	\$ -	-\$	8,074,362	\$	86,929,279
13	1910	Leasehold Improvements	\$ -		\$ -	\$ -		\$	-			\$ -	\$	-	\$	-
8	1915	Office Furniture & Equipment (10 years)	\$ 4,344,722	\$ 100,766	\$ -	\$ 4,445,488	3	-\$	713,786	-\$	425,555	\$ -	-\$	1,139,341	\$	3,306,147
8	1915	Office Furniture & Equipment (5 years)	\$ -		\$ -	\$ -		\$	-			\$ -	\$	-	\$	-
10	1920	Computer Equipment - Hardware	\$ -		\$ -	\$ -		\$	-			\$ -	\$	-	\$	-
45	1920	Computer EquipHardware(Post Mar. 22/04)	\$ -		\$ -	\$ -		\$	1			\$ -	\$	-	\$	-
50	1920	Computer EquipHardware(Post Mar. 19/07)	\$ 10,046,414	\$ 1,459,982	\$ -	\$ 11,506,396	3	-\$	3,432,714	-\$	1,762,186	\$ -	-\$	5,194,900	\$	6,311,496
10	1930	Transportation Equipment	\$ 18,838,678	\$ 180,773	-\$ 27,765	\$ 18,991,686	3	-\$	8,085,916	-\$	1,560,773	\$ 22,058	-\$	9,624,631	\$	9,367,055
8	1935	Stores Equipment	\$ 560,703		\$ -	\$ 560,703	3	-\$	28,035	-\$	56,225	\$ -	-\$	84,260	\$	476,443
8	1940	Tools, Shop & Garage Equipment	\$ 3,997,781	\$ 449,596	\$ -	\$ 4,447,377	7	-\$	1,864,054	-\$	446,365	\$ -	-\$	2,310,419	\$	2,136,958
8	1945	Measurement & Testing Equipment	\$ 209,467		\$ -	\$ 209,467	7	-\$	140,362	-\$	23,512	\$ -	-\$	163,874	\$	45,593
8	1950	Power Operated Equipment	\$ 1,122,129	\$ 354,695	-\$ 83,875	\$ 1,392,949	9	-\$	415,103	-\$	89,524	\$ 71,355	-\$	433,272	\$	959,677
8	1955	Communications Equipment	\$ 15,266,072	\$ 1,012,516	\$ -	\$ 16,278,588	3	-\$	3,801,116	-\$	1,560,031	\$ -	-\$	5,361,147	\$	10,917,441

Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 2 Schedule 1 Attachment E UPDATED May 5, 2020 Page 2 of 2

												_			
8	1955	Communication Equipment (Smart Meters)	\$ -		\$ -	\$	-	\$	-		\$ -	\$	-	\$	-
8	1960	Miscellaneous Equipment	\$ 198,958	\$ 6,099	\$ -	\$	205,057	-\$	134,735	-\$ 25,019	\$ -	-\$	159,754	\$	45,303
47	1970	Load Management Controls Customer Premises	\$ -	\$ -	\$ -	\$	-	\$	_	\$ -	\$ -	\$	-	\$	-
47	1975	Load Management Controls Utility Premises	\$ -	\$ -	\$ -	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-
47	1980	System Supervisor Equipment	\$ 13,736,173	\$ 1,013,957	\$ -	\$	14,750,130	-\$	4,769,538	-\$ 1,235,550	\$ -	-\$	6,005,088	\$	8,745,042
47	1985	Miscellaneous Fixed Assets	\$ -		\$ -	\$	-	\$	-		\$ -	\$	-	\$	-
47	1990	Other Tangible Property	\$ -		\$ -	\$	-	\$	-		\$ -	\$	-	\$	-
47	1995	Contributions & Grants	\$ -		\$ -	\$	-	\$	-		\$ -	\$	-	\$	-
47	2440	Deferred Revenue5	-\$ 142,719,366	-\$ 36,003,198	\$ -	-\$	178,722,564	\$	11,897,528	\$ 5,089,115	\$ -	\$	16,986,643	-\$	161,735,921
						\$	-					\$	-	\$	-
		Sub-Total	\$ 1,294,465,493	\$ 84,600,540	-\$ 1,752,397	\$	1,377,313,637	-\$	227,433,647	-\$ 50,704,193	\$ 468,224	-\$ 2	277,669,616	\$ 1	1,099,644,020
		Less Socialized Renewable Energy Generation Investments (input as negative)				\$	-					\$	-	\$	-
		Less Other Non Rate-Regulated Utility Assets (input as negative)				\$	-					\$	-	\$	-
		Total PP&E	\$ 1,294,465,493	\$ 84,600,540	-\$ 1,752,397	\$	1,377,313,637	-\$	227,433,647	-\$ 50,704,193	\$ 468,224	-\$ 2	277,669,616	\$ 1	1,099,644,020
		Depreciation Expense adj. from gain or los	ss on the retirem	ent of assets (pool of like as	sset	s), if applicable	6				•			
		Total								-\$ 50,704,193					

Less: Fully Allocated Depreciation

10	Transportation	Transportation	
8	Stores Equipment	Stores Equipment	
		Net Depreciation	-\$ 50,704,193

Notes:

- Tables in the format outlined above covering all fixed asset accounts should be submitted for the Test Year, Bridge Year and all relevant historical years. At a minimum, the applicant must provide data for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.
- The "CCA Class" for fixed assets should generally agree with the CCA Class used for tax purposes in Tax Returns. Fixed Assets sub-components may be used where the underlying asset components are classified under multiple CCA Classes for tax purposes. If an applicant uses any different classes from those shown in the table, an explanation should be provided. (also see note 3).
- 3 The table may need to be customized for a utility's asset categories or for any new asset accounts announced or authorized by the OEB.
- 4 The additions in column (E) must not include construction work in progress (CWIP).
- 5 Effective on the date of IFRS adoption, customer contributions will no longer be recorded in Account 1995 Contributions & Grants, but will be recorded in Account 2440, Deferred Revenues.
- The applicant must ensure that all asset disposals have been clearly identified in the Chapter 2 Appendices for all historic, bridge and test years. Where a distributor for general financial reporting purposes under IFRS has accounted for the amount of gain or loss on the retirement of assets in a pool of like assets as a charge or credit to income, for reporting and rate application filings, the distributor shall reclassify such gains and losses as depreciation expense, and disclose the amount separately.

Hydro Ottawa Limited
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Exhibit 2
Tab 2
Schedule 1
Attachment F
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Page 1 of 2

UPDATED - Appendix 2-BA Fixed Asset Continuity Schedule 1

Accounting Standard

MIFRS **2021**

Year 2

			Cost									
CCA Class 2	OEB Account 3	Description 3	Opening Balance	Additions 4	Disposals 6	Closing Balance		Opening Balance	Additions	Disposals 6	Closing Balance	Net Book Value
	1609	Capital Contributions Paid	\$ 35,595,433	\$ 51,223,891	\$ -	\$ 86,819,324	-:	\$ 2,974,071	-\$ 1,088,293	\$ -	-\$ 4,062,364	\$ 82,756,960
12	1611	Computer Software (Formally known as Account 1925)	\$ 79,634,450	\$ 6,988,497	\$ -	\$ 86,622,947		\$ 45,728,463	-\$ 7,305,676	\$ -	-\$ 53,034,139	\$ 33,588,808
CEC	1612	Land Rights (Formally known as Account 1906)	\$ 2,533,201	\$ 13,268	\$ -	\$ 2,546,469	-:	\$ 396,983	-\$ 59,497	\$ -	-\$ 456,480	\$ 2,089,989
N/A	1805	Land	\$ 4,660,612	\$ 1,569	\$ -	\$ 4,662,181		\$ -		\$ -	\$ -	\$ 4,662,181
47	1808	Buildings	\$ 30,394,731	\$ 724,819	\$ -	\$ 31,119,550	-:	\$ 5,522,424	-\$ 818,992	\$ -	-\$ 6,341,416	\$ 24,778,134
13	1810	Leasehold Improvements	\$ -		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -
47	1815	Transformer Station Equipment >50 kV	\$ 118,748,440	\$ 8,247,498	\$ -	\$ 126,995,938	-:	\$ 21,542,003	-\$ 3,757,680	\$ -	-\$ 25,299,683	\$ 101,696,255
47	1820	Distribution Station Equipment <50 kV	\$ 134,959,234	\$ 13,738,471	-\$ 96,181	\$ 148,601,524	-:	\$ 26,254,228	-\$ 4,462,581	\$ 55,028	-\$ 30,661,781	\$ 117,939,743
47	1825	Storage Battery Equipment	\$ -		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -
47	1830	Poles, Towers & Fixtures	\$ 146,551,288	\$ 8,715,471	-\$ 313,703	\$ 154,953,056	-:	\$ 19,556,332	-\$ 3,673,027	\$ 30,864	-\$ 23,198,495	\$ 131,754,561
47	1835	Overhead Conductors & Devices	\$ 145,233,051	\$ 11,400,338	-\$ 230,544	\$ 156,402,845	-	\$ 19,025,202	-\$ 3,938,401	\$ 26,635	-\$ 22,936,968	\$ 133,465,877
47	1840	Underground Conduit	\$ 240,050,505	\$ 25,696,125	\$ -	\$ 265,746,630	-	\$ 29,306,560	-\$ 6,713,783	\$ -	-\$ 36,020,343	\$ 229,726,287
47	1845	Underground Conductors & Devices	\$ 199,704,356	\$ 26,000,462	-\$ 359,069	\$ 225,345,749	-	\$ 31,024,099	-\$ 6,661,033	\$ 64,812	-\$ 37,620,320	\$ 187,725,429
47	1850	Line Transformers	\$ 102,725,515	\$ 8,365,754	-\$ 220,567	\$ 110,870,702	-	\$ 17,103,828	-\$ 3,405,578	\$ 40,727	-\$ 20,468,679	\$ 90,402,023
47	1855	Services (Overhead & Underground)	\$ 75,656,234	\$ 4,404,116	\$ -	\$ 80,060,350	-	\$ 10,984,753	-\$ 2,006,006	\$ -	-\$ 12,990,759	\$ 67,069,591
47	1860	Meters	\$ -		\$ -	\$ -	1	\$ -		\$ -	\$ -	\$ -
47	1860	Meters (Smart Meters)	\$ 51,855,664	\$ 7,339,435	-\$ 1,113,668	\$ 58,081,431	-:	\$ 26,679,512	-\$ 4,812,311	\$ 762,440	-\$ 30,729,383	\$ 27,352,048
N/A	1905	Land	\$ 19,942,005		\$ -	\$ 19,942,005	-:	\$ 6,754	-\$ 4,047	\$ -	-\$ 10,801	\$ 19,931,204
47	1908	Buildings & Fixtures	\$ 95,003,641	\$ 352,679	\$ -	\$ 95,356,320	-:	\$ 8,074,362	-\$ 3,116,870	\$ -	-\$ 11,191,232	\$ 84,165,088
13	1910	Leasehold Improvements	\$ -		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -
8	1915	Office Furniture & Equipment (10 years)	\$ 4,445,488	\$ 75,574	\$ -	\$ 4,521,062	-:	\$ 1,139,341	-\$ 416,853	\$ -	-\$ 1,556,194	\$ 2,964,868
8	1915	Office Furniture & Equipment (5 years)	\$ -		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -
10	1920	Computer Equipment - Hardware	\$ -		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -
45	1920	Computer EquipHardware(Post Mar. 22/04)	\$ -		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -
50	1920	Computer EquipHardware(Post Mar. 19/07)	\$ 11,506,396	\$ 1,463,823	\$ -	\$ 12,970,219	-	\$ 5,194,900	-\$ 1,884,900	\$ -	-\$ 7,079,800	\$ 5,890,419
10	1930	Transportation Equipment	\$ 18,991,686	\$ 6,124,426	-\$ 1,821,564	\$ 23,294,547	-:	\$ 9,624,631	-\$ 1,220,734	\$ 1,578,341	-\$ 9,267,024	\$ 14,027,523
8	1935	Stores Equipment	\$ 560,703		\$ -	\$ 560,703	-:	\$ 84,260	-\$ 56,224	\$ -	-\$ 140,484	\$ 420,219
8	1940	Tools, Shop & Garage Equipment	\$ 4,447,377	\$ 473,651	\$ -	\$ 4,921,028	1 -	\$ 2,310,419	-\$ 440,309	\$ -	-\$ 2,750,728	\$ 2,170,300
8	1945	Measurement & Testing Equipment	\$ 209,467		\$ -	\$ 209,467	-:	\$ 163,874	-\$ 23,447	\$ -	-\$ 187,321	\$ 22,146
8	1950	Power Operated Equipment	\$ 1,392,949	\$ 163,845	-\$ 51,487	\$ 1,505,307	-	\$ 433,272	-\$ 99,140	\$ 45,489	-\$ 486,923	\$ 1,018,384
8	1955	Communications Equipment	\$ 16,278,588	\$ 3,476,464	\$ -	\$ 19,755,052	1 -	\$ 5,361,147	-\$ 1,786,969	\$ -	-\$ 7,148,116	\$ 12,606,936
8	1955	Communication Equipment (Smart Meters)	\$ -		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -
8	1960	Miscellaneous Equipment	\$ 205,057	\$ 7,305	\$ -	\$ 212,362	1 -	\$ 159,754	-\$ 19,031	\$ -	-\$ 178,785	\$ 33,577

Hydro Ottawa Limited
EB-2019-0261
Exhibit 2
Tab 2
Schedule 1
Attachment F
UPDATED
May 5, 2020
Page 2 of 2

47	1970	Load Management Controls Customer Premises	\$	_	\$ -	\$ -	s -		\$ -	\$ -	\$ _	s	_	\$	-
47	1975	Load Management Controls Utility Premises	\$	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$	-	\$	-
47	1980	System Supervisor Equipment	\$	14,750,130	\$ 1,576,567	\$ -	\$ 16,326,697		-\$ 6,005,088	-\$ 1,261,664	\$ -	-\$	7,266,752	\$	9,059,945
47	1985	Miscellaneous Fixed Assets	\$	-		\$ -	\$ -		\$ -		\$ -	\$	-	\$	-
47	1990	Other Tangible Property	\$	-		\$ -	\$ -		\$ -		\$ -	\$	-	\$	-
47	1995	Contributions & Grants	\$	-		\$ -	\$ -		\$ -		\$ -	\$	-	\$	-
47	2440	Deferred Revenue5	-\$	178,722,564	-\$ 40,195,489	\$ -	-\$ 218,918,053		\$ 16,986,643	\$ 6,700,322	\$ -	\$	23,686,965	-\$ 1	95,231,088
							\$ -					\$	-	\$	-
		Sub-Total	\$	1,377,313,637	\$ 146,378,559	-\$ 4,206,783	\$ 1,519,485,413	П	-\$ 277,669,616	-\$ 52,332,724	\$ 2,604,336	-\$	327,398,005	\$ 1,	192,087,408
		Less Socialized Renewable Energy Generation Investments (input as negative)					\$ -					\$	-	\$	-
		Less Other Non Rate-Regulated Utility Assets (input as negative)					\$ -					\$	-	\$	-
		Total PP&E	\$	1,377,313,637	\$ 146,378,559	-\$ 4,206,783	\$ 1,519,485,413		-\$ 277,669,616	-\$ 52,332,724	\$ 2,604,336	-\$	327,398,005	\$ 1,	192,087,408
		Depreciation Expense adj. from gain or los	ss o	n the retirement	of assets (poo	l of like asset	ts), if applicable6								
		Total								-\$ 52,332,724					

Less: Fully Allocated Depreciation

10	Transportation	Transportation	
8	Stores Equipment	Stores Equipment	
		Net Depreciation	-\$ 52 332 724

Notes:

- Tables in the format outlined above covering all fixed asset accounts should be submitted for the Test Year, Bridge Year and all relevant historical years. At a minimum, the applicant must provide data for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.
- The "CCA Class" for fixed assets should generally agree with the CCA Class used for tax purposes in Tax Returns. Fixed Assets sub-components may be used where the underlying asset components are classified under multiple CCA Classes for tax purposes. If an applicant uses any different classes from those shown in the table, an explanation should be provided. (also see note 3).
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- The applicant must ensure that all asset disposals have been clearly identified in the Chapter 2 Appendices for all historic, bridge and test years. Where a distributor for general financial reporting purposes under IFRS has accounted for the amount of gain or loss on the retirement of assets in a pool of like assets as a charge or credit to income, for reporting and rate application filings, the distributor shall reclassify such gains and losses as depreciation expense, and disclose the amount separately.

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UPDATED - Appendix 2-BA Fixed Asset Continuity Schedule 1

Accounting Standard

Year

MIFRS

				Cos	it					Ac	cumulated I	Depr	eciation				
CCA Class 2	OEB Account 3	Description 3	Opening Balance	Additions 4	Disposals 6	Clo	osing Balance		Opening Balance		Additions	Dis	posals 6		Closing Balance	١	Net Book Value
	1609	Capital Contributions Paid	\$ 86,819,324	\$ 210,000		\$	87,029,324	-\$	4,062,364	-\$	1,946,433			-\$	6,008,797	\$	81,020,527
12	1611	Computer Software (Formally known as Account 1925)	\$ 86,622,947	\$ 6,380,278		\$	93,003,225	-\$	53,034,139	-\$	8,607,321			-\$	61,641,460	\$	31,361,765
CEC	1612	Land Rights (Formally known as Account 1906)	\$ 2,546,469	\$ 13,040		\$	2,559,509	-\$	456,480	-\$	59,760			-\$	516,240	\$	2,043,269
N/A	1805	Land	\$ 4,662,181	\$ 162,462		\$	4,824,643	\$	-					\$	-	\$	4,824,643
47	1808	Buildings	\$ 31,119,550	\$ 8,365,966		\$	39,485,516	-\$	6,341,416	-\$	934,231			-\$	7,275,647	\$	32,209,869
13	1810	Leasehold Improvements	\$ -			\$	-	\$	-					\$	-	\$	-
47	1815	Transformer Station Equipment >50 kV	\$ 126,995,938	\$ 25,611,949		\$	152,607,887	-\$	25,299,683	-\$	4,359,904			-\$	29,659,587	\$ 1	122,948,300
47	1820	Distribution Station Equipment <50 kV	\$ 148,601,524	\$ 10,005,389	-\$ 96,181	\$	158,510,732	-\$	30,661,781	-\$	4,699,714	\$	55,028	-\$	35,306,467	\$ ^	123,204,265
47	1825	Storage Battery Equipment	\$ -			\$	-	\$	-					\$	-	\$	-
47	1830	Poles, Towers & Fixtures	\$ 154,953,056	\$ 9,161,771	-\$ 313,703	\$	163,801,124	-\$	23,198,495	-\$	3,870,235	\$	30,864	-\$	27,037,866	\$ ^	136,763,258
47	1835	Overhead Conductors & Devices	\$ 156,402,845	\$ 13,334,739	-\$ 230,544	\$	169,507,040	-\$	22,936,968	-\$	4,247,939	\$	26,635	-\$	27,158,272	\$ 1	142,348,768
47	1840	Underground Conduit	\$ 265,746,630	\$ 22,225,040		\$	287,971,670	-\$	36,020,343	-\$	7,282,382			-\$	43,302,725	\$ 2	244,668,945
47	1845	Underground Conductors & Devices	\$ 225,345,749	\$ 21,007,287	-\$ 359,069	\$	245,993,967	-\$	37,620,320	-\$	7,322,791	\$	64,812	-\$	44,878,299	\$ 2	201,115,668
47	1850	Line Transformers	\$ 110,870,702	\$ 8,143,668	-\$ 220,567	\$	118,793,803	-\$	20,468,679	-\$	3,638,351	\$	40,727	-\$	24,066,303	\$	94,727,500
47	1855	Services (Overhead & Underground)	\$ 80,060,350	\$ 4,563,872		\$	84,624,222	-\$	12,990,759	-\$	2,105,656			-\$	15,096,415	\$	69,527,807
47	1860	Meters	\$ -			\$	-	\$	-					\$	-	\$	-
47	1860	Meters (Smart Meters)	\$ 58,081,431	\$ 7,014,822	-\$ 1,129,168	\$	63,967,085	-\$	30,729,383	-\$	4,261,148	\$	776,310	-\$	34,214,221	\$	29,752,864
N/A	1905	Land	\$ 19,942,005			\$	19,942,005	-\$	10,801	-\$	4,047			-\$	14,848	\$	19,927,157
47	1908	Buildings & Fixtures	\$ 95,356,320	\$ 1,594,802		\$	96,951,122	-\$	11,191,232	-\$	3,185,739			-\$	14,376,971	\$	82,574,151
13	1910	Leasehold Improvements	\$ -			\$	-	\$	-					\$	-	\$	-
8	1915	Office Furniture & Equipment (10 years)	\$ 4,521,062	\$ 75,574		\$	4,596,636	-\$	1,556,194	-\$	407,568			-\$	1,963,762	\$	2,632,874
8	1915	Office Furniture & Equipment (5 years)	\$ -			\$	-	\$	-					\$	-	\$	-
10	1920	Computer Equipment - Hardware	\$ -			\$	-	\$	-					\$	-	\$	-
45	1920	Computer EquipHardware(Post Mar. 22/04)	\$ -			\$	-	\$	-					\$	-	\$	_
50	1920	Computer EquipHardware(Post Mar. 19/07)	\$ 12,970,219	\$ 2,517,544		\$	15,487,763	-\$	7,079,800	-\$	2,172,161			-\$	9,251,961	\$	6,235,802
10	1930	Transportation Equipment	\$ 23,294,547	\$ 5,223,986	-\$ 2,047,008	\$	26,471,525	-\$	9,267,024	-\$	1,577,489	\$ 1	,834,846	-\$	9,009,667	\$	17,461,858
8	1935	Stores Equipment	\$ 560,703			\$	560,703	-\$	140,484	-\$	56,224			-\$	196,708	\$	363,995
8	1940	Tools, Shop & Garage Equipment	\$ 4,921,028	\$ 474,390		\$	5,395,418	-\$	2,750,728	-\$	441,144			-\$	3,191,872	\$	2,203,546
8	1945	Measurement & Testing Equipment	\$ 209,467			\$	209,467	-\$	187,321	-\$	16,697			-\$	204,018	\$	5,449

Hydro Ottawa Limited
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May 5, 2020
Page 2 of 2

8	1950	Power Operated Equipment	\$	1,505,307				\$	1,505,307	-\$	486,923	-\$	102,206		-\$	589,129	\$	916,178
8	1955	Communications Equipment	\$	19,755,052	\$	1,487,510		\$	21,242,562	-\$	7,148,116	-\$	2,060,745		-\$	9,208,861	\$	12,033,701
8	1955	Communication Equipment (Smart Meters)	\$	-				\$	-	\$	-				\$	-	\$	-
8	1960	Miscellaneous Equipment	\$	212,362	\$	307,972		\$	520,334	-\$	178,785	-\$	30,554		-\$	209,339	\$	310,995
47	1970	Load Management Controls Customer Premises	\$	-	\$	350,910		\$	350,910	\$; -	-\$	17,545		-\$	17,545	\$	333,365
47	1975	Load Management Controls Utility Premises	\$	-	\$	203,443		\$	203,443	\$	-	-\$	10,172		-\$	10,172	\$	193,271
47	1980	System Supervisor Equipment	\$	16,326,697	\$	1,701,727		\$	18,028,424	-\$	7,266,752	-\$	1,292,876		-\$	8,559,628	\$	9,468,796
47	1985	Miscellaneous Fixed Assets	\$	-				\$	-	\$	-				\$	-	\$	-
47	1990	Other Tangible Property	\$	-				\$	-	\$	-				\$	-	\$	-
47	1995	Contributions & Grants	\$	-				\$	-	\$	-				\$	-	\$	-
47	2440	Deferred Revenue5	-\$	218,918,053	-\$ 2	25,452,767	\$ 599,738	-\$	243,771,082	\$	23,686,965	\$	8,012,479	-\$ 599,738	\$	31,099,706	-\$ 2	212,671,376
								\$	-						\$	-	\$	-
		Sub-Total	\$	1,519,485,413	\$ 1	124,685,374	-\$ 3,796,502	\$ 1	,640,374,285	-\$	327,398,005	-\$	56,698,553	\$ 2,229,484	-\$	381,867,074	\$ 1	,258,507,211
		Less Socialized Renewable Energy Generation Investments (input as negative)						\$	-						\$	-	\$	-
		Less Other Non Rate-Regulated Utility Assets (input as negative)						\$	-						\$	-	\$	-
		Total PP&E	\$	1,519,485,413	\$ 1	124,685,374	-\$ 3,796,502	\$ 1	,640,374,285	-\$	327,398,005	-\$	56,698,553	\$ 2,229,484	-\$	381,867,074	\$ 1	,258,507,211
		Depreciation Expense adj. from gain or lo	ss o	n the retirement	t of a	assets (poo	l of like asse	s), i	f applicable6									
		Total				•						-\$	56,698,553					

Less: Fully Allocated Depreciation

10	Transportation	Transportation	
8	Stores Equipment	Stores Equipment	
		Net Depreciation	-\$ 56,698,553

Notes:

- Tables in the format outlined above covering all fixed asset accounts should be submitted for the Test Year, Bridge Year and all relevant historical years. At a minimum, the applicant must provide data for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.
- The "CCA Class" for fixed assets should generally agree with the CCA Class used for tax purposes in Tax Returns. Fixed Assets sub-components may be used where the underlying asset components are classified under multiple CCA Classes for tax purposes. If an applicant uses any different classes from those shown in the table, an explanation should be provided. (also see note 3).
- 3 The table may need to be customized for a utility's asset categories or for any new asset accounts announced or authorized by the OEB.
- 4 The additions in column (E) must not include construction work in progress (CWIP).
- 5 Effective on the date of IFRS adoption, customer contributions will no longer be recorded in Account 1995 Contributions & Grants, but will be recorded in Account 2440, Deferred Revenues.
- The applicant must ensure that all asset disposals have been clearly identified in the Chapter 2 Appendices for all historic, bridge and test years. Where a distributor for general financial reporting purposes under IFRS has accounted for the amount of gain or loss on the retirement of assets in a pool of like assets as a charge or credit to income, for reporting and rate application filings, the distributor shall reclassify such gains and losses as depreciation expense, and disclose the amount separately.

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UPDATED - Appendix 2-BA Fixed Asset Continuity Schedule 1

Accounting Standard MIFRS

Year 2023

				Cos	t					Ac	cumulated [Depr	eciation				
CCA Class 2	OEB Account 3	Description 3	Opening Balance	Additions 4	Disposals 6	Clo	sing Balance		Opening Balance	4	Additions	Dis	posals 6		Closing Balance	ı	Net Book Value
	1609	Capital Contributions Paid	\$ 87,029,324	\$ 100,000		\$	87,129,324	-\$	6,008,797	-\$	1,950,895			-\$	7,959,692	\$	79,169,632
12	1611	Computer Software (Formally known as Account 1925)	\$ 93,003,225	\$ 3,590,513		\$	96,593,738	-\$	61,641,460	-\$	9,194,054			-\$	70,835,514	\$	25,758,224
CEC	1612	Land Rights (Formally known as Account 1906)	\$ 2,559,509	\$ 12,296		\$	2,571,805	-\$	516,240	-\$	60,014			-\$	576,254	\$	1,995,551
N/A	1805	Land	\$ 4,824,643			\$	4,824,643	\$	-					\$	-	\$	4,824,643
47	1808	Buildings	\$ 39,485,516	\$ 534,656		\$	40,020,172	-\$	7,275,647	-\$	994,934			-\$	8,270,581	\$	31,749,591
13	1810	Leasehold Improvements	\$ -			\$	-	\$	-					\$	-	\$	-
47	1815	Transformer Station Equipment >50 kV	\$ 152,607,887	\$ 3,602,046		\$	156,209,933	-\$	29,659,587	-\$	4,672,709			-\$	34,332,296	\$	121,877,637
47	1820	Distribution Station Equipment <50 kV	\$ 158,510,732	\$ 4,126,157	-\$ 96,181	\$	162,540,708	-\$	35,306,467	-\$	4,863,301	\$	55,028	-\$	40,114,740	\$	122,425,968
47	1825	Storage Battery Equipment	\$ -			\$	-	\$	-					\$	-	\$	-
47	1830	Poles, Towers & Fixtures	\$ 163,801,124	\$ 9,876,018	-\$ 313,703	\$	173,363,439	-\$	27,037,866	-\$	4,081,762	\$	30,864	-\$	31,088,764	\$	142,274,675
47	1835	Overhead Conductors & Devices	\$ 169,507,040	\$ 13,582,445	-\$ 230,544	\$	182,858,941	-\$	27,158,272	-\$	4,586,713	\$	26,635	-\$	31,718,350	\$	151,140,591
47	1840	Underground Conduit	\$ 287,971,670	\$ 20,403,122		\$	308,374,792	-\$	43,302,725	-\$	7,783,016			-\$	51,085,741	\$ 2	257,289,051
47	1845	Underground Conductors & Devices	\$ 245,993,967	\$ 18,820,790	-\$ 359,069	\$	264,455,688	-\$	44,878,299	-\$	7,871,614	\$	64,812	-\$	52,685,101	\$ 2	211,770,587
47	1850	Line Transformers	\$ 118,793,803	\$ 7,823,557	-\$ 220,567	\$	126,396,793	-\$	24,066,303	-\$	3,854,763	\$	40,727	-\$	27,880,339	\$	98,516,454
47	1855	Services (Overhead & Underground)	\$ 84,624,222	\$ 4,595,931		\$	89,220,153	-\$	15,096,415	-\$	2,207,425			-\$	17,303,840	\$	71,916,313
47	1860	Meters	\$ -			\$	-	\$	-					\$	-	\$	-
47	1860	Meters (Smart Meters)	\$ 63,967,085	\$ 6,673,267	-\$ 955,308	\$	69,685,044	-\$	34,214,221	-\$	3,930,943	\$	688,888	-\$	37,456,276	\$	32,228,768
N/A	1905	Land	\$ 19,942,005			\$	19,942,005	-\$	14,848	-\$	4,047			-\$	18,895	\$	19,923,110
47	1908	Buildings & Fixtures	\$ 96,951,122	\$ 352,679		\$	97,303,801	-\$	14,376,971	-\$	3,197,517			-\$	17,574,488	\$	79,729,313
13	1910	Leasehold Improvements	\$ -			\$	-	\$	-					\$	-	\$	-
8	1915	Office Furniture & Equipment (10 years)	\$ 4,596,636	\$ 50,383		\$	4,647,019	-\$	1,963,762	-\$	400,102			-\$	2,363,864	\$	2,283,155
8	1915	Office Furniture & Equipment (5 years)	\$ -			\$	-	\$	-					\$	-	\$	-
10	1920	Computer Equipment - Hardware	\$ -			\$	-	\$	-					\$	-	\$	-
45	1920	Computer EquipHardware(Post Mar. 22/04)	\$ -			\$	-	\$	_					\$	-	\$	-
50	1920	Computer EquipHardware(Post Mar. 19/07)	\$ 15,487,763	\$ 1,160,674		\$	16,648,437	-\$	9,251,961	-\$	2,042,539			-\$	11,294,500	\$	5,353,937
10	1930	Transportation Equipment	\$ 26,471,525	\$ 2,233,064	-\$ 1,501,028	\$	27,203,561	-\$	9,009,667	-\$	1,991,963	\$ 1	,413,150	-\$	9,588,480	\$	17,615,081
8	1935	Stores Equipment	\$ 560,703			\$	560,703	-\$	196,708	-\$	56,224			-\$	252,932	\$	307,771
8	1940	Tools, Shop & Garage Equipment	\$ 5,395,418	\$ 461,809		\$	5,857,227	-\$	3,191,872	-\$	442,658			-\$	3,634,530	\$	2,222,697
8	1945	Measurement & Testing Equipment	\$ 209,467			\$	209,467	-\$	204,018	-\$	5,066			-\$	209,084	\$	383
8	1950	Power Operated Equipment	\$ 1,505,307	\$ 115,377		\$	1,620,684	-\$	589,129	-\$	82,798			-\$	671,927	\$	948,757

Hydro Ottawa Limited
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Tab 2
Schedule 1
Attachment H
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May 5, 2020
Page 2 of 2

					_					_		_			_		_	
8	1955	Communications Equipment	\$	21,242,562	\$	874,903		\$	22,117,465	-\$	9,208,861	-\$	2,173,813		-\$	11,382,674	\$	10,734,791
8	1955	Communication Equipment (Smart Meters)	\$	-				\$	-	\$	-				\$	-	\$	-
8	1960	Miscellaneous Equipment	\$	520,334	\$	16,787		\$	537,121	-\$	209,339	-\$	43,258		-\$	252,597	\$	284,524
47	1970	Load Management Controls Customer Premises	\$	350,910				\$	350,910	-\$	17,545	-\$	35,091		-\$	52,636	\$	298,274
47	1975	Load Management Controls Utility Premises	\$	203,443				\$	203,443	-\$	10,172	-\$	20,344		-\$	30,516	\$	172,927
47	1980	System Supervisor Equipment	\$	18,028,424	\$	992,743		\$	19,021,167	-\$	8,559,628	-\$	1,274,267		-\$	9,833,895	\$	9,187,272
47	1985	Miscellaneous Fixed Assets	\$	-				\$	-	\$	-				\$	-	\$	-
47	1990	Other Tangible Property	\$	-				\$	-	\$	-				\$	-	\$	-
47	1995	Contributions & Grants	\$	-				\$	-	\$	-				\$	-	\$	-
47	2440	Deferred Revenue5	-\$	243,771,082	-\$ 2	21,345,516	\$ 360,000	-\$	264,756,598	\$	31,099,706	\$	8,806,490	-\$ 360,000	\$	39,546,196	-\$ 2	225,210,402
								\$	-						\$	-	\$	-
		Sub-Total	\$	1,640,374,285	\$ 7	78,653,701	-\$ 3,316,400	\$	1,715,711,586	-\$	381,867,074	-\$	59,015,340	\$ 1,960,104	-\$ 4	438,922,310	\$ 1	,276,789,276
		Less Socialized Renewable Energy Generation Investments (input as negative)						\$	-						\$	-	\$	-
		Less Other Non Rate-Regulated Utility Assets (input as negative)						\$	-						\$	-	\$	-
		Total PP&E	\$	1,640,374,285	\$ 7	78,653,701	-\$ 3,316,400	\$	1,715,711,586	-\$	381,867,074	-\$	59,015,340	\$ 1,960,104	-\$ 4	438,922,310	\$ 1	,276,789,276
		Depreciation Expense adj. from gain or lo	ss o	n the retirement	of a	assets (poo	l of like asset	ts),	if applicable6									
		Total										-\$	59,015,340	1				

Less: Fully Allocated Depreciation

10	Transportation	Transportation	
8	Stores Equipment	Stores Equipment	
		Net Depreciation	-\$ 59,015,340

Notes:

- 1 Tables in the format outlined above covering all fixed asset accounts should be submitted for the Test Year, Bridge Year and all relevant historical years. At a minimum, the applicant must provide data for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.
- The "CCA Class" for fixed assets should generally agree with the CCA Class used for tax purposes in Tax Returns. Fixed Assets sub-components may be used where the underlying asset components are classified under multiple CCA Classes for tax purposes. If an applicant uses any different classes from those shown in the table, an explanation should be provided. (also see note 3).
- 3 The table may need to be customized for a utility's asset categories or for any new asset accounts announced or authorized by the OEB.
- 4 The additions in column (E) must not include construction work in progress (CWIP).
- 5 Effective on the date of IFRS adoption, customer contributions will no longer be recorded in Account 1995 Contributions & Grants, but will be recorded in Account 2440, Deferred Revenues.
- The applicant must ensure that all asset disposals have been clearly identified in the Chapter 2 Appendices for all historic, bridge and test years. Where a distributor for general financial reporting purposes under IFRS has accounted for the amount of gain or loss on the retirement of assets in a pool of like assets as a charge or credit to income, for reporting and rate application filings, the distributor shall reclassify such gains and losses as depreciation expense, and disclose the amount separately.

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UPDATED - Appendix 2-BA Fixed Asset Continuity Schedule 1

Accounting Standard Year

MIFRS

				Cos	t					Ac	cumulated [Depr	eciation				
CCA Class 2	OEB Account 3	Description 3	Opening Balance	Additions 4	Disposals 6	Clo	osing Balance		Opening Balance	,	Additions	Dis	posals 6		Closing Balance	١	Net Book Value
	1609	Capital Contributions Paid	\$ 87,129,324	\$ 2,130,000		\$	89,259,324	-\$	7,959,692	-\$	1,958,654			-\$	9,918,346	\$	79,340,978
12	1611	Computer Software (Formally known as Account 1925)	\$ 96,593,738	\$ 2,672,828		\$	99,266,566	-\$	70,835,514	-\$	9,617,635			-\$	80,453,149	\$	18,813,417
CEC	1612	Land Rights (Formally known as Account 1906)	\$ 2,571,805	\$ 12,370		\$	2,584,175	-\$	576,254	-\$	60,424			-\$	636,678	\$	1,947,497
N/A	1805	Land	\$ 4,824,643			\$	4,824,643	\$	-					\$	-	\$	4,824,643
47	1808	Buildings	\$ 40,020,172	\$ 930,941		\$	40,951,113	-\$	8,270,581	-\$	1,019,266			-\$	9,289,847	\$	31,661,266
13	1810	Leasehold Improvements	\$ -			\$	-	\$	-					\$	-	\$	-
47	1815	Transformer Station Equipment >50 kV	\$ 156,209,933	\$ 5,429,195		\$	161,639,128	-\$	34,332,296	-\$	4,810,909			-\$	39,143,205	\$ ^	122,495,923
47	1820	Distribution Station Equipment <50 kV	\$ 162,540,708	\$ 11,994,416	-\$ 96,181	\$	174,438,943	-9	40,114,740	-\$	5,000,717	\$	55,028	-\$	45,060,429	\$ '	129,378,514
47	1825	Storage Battery Equipment	\$ -			\$	-	9	; -					\$	-	\$	-
47	1830	Poles, Towers & Fixtures	\$ 173,363,439	\$ 8,186,322	-\$ 313,703	\$	181,236,058	-\$	31,088,764	-\$	4,291,482	\$	30,864	-\$	35,349,382	\$ ^	145,886,676
47	1835	Overhead Conductors & Devices	\$ 182,858,941	\$ 11,967,313	-\$ 230,544	\$	194,595,710	-9	31,718,350	-\$	4,917,860	\$	26,635	-\$	36,609,575	\$ ^	157,986,135
47	1840	Underground Conduit	\$ 308,374,792	\$ 18,547,382		\$	326,922,174	-9	51,085,741	-\$	8,246,543			-\$	59,332,284	\$ 2	267,589,890
47	1845	Underground Conductors & Devices	\$ 264,455,688	\$ 17,644,613	-\$ 359,069	\$	281,741,232	-9	52,685,101	-\$	8,377,879	\$	64,812	-\$	60,998,168	\$ 2	220,743,064
47	1850	Line Transformers	\$ 126,396,793	\$ 7,349,154	-\$ 220,567	\$	133,525,380	-9	27,880,339	-\$	4,055,629	\$	40,727	-\$	31,895,241	\$ ^	101,630,139
47	1855	Services (Overhead & Underground)	\$ 89,220,153	\$ 4,435,769		\$	93,655,922	-\$	17,303,840	-\$	2,312,462			-\$	19,616,302	\$	74,039,620
47	1860	Meters	\$ -			\$	-	9	-					\$	-	\$	-
47	1860	Meters (Smart Meters)	\$ 69,685,044	\$ 7,261,510	-\$ 1,003,515	\$	75,943,039	-9	37,456,276	-\$	3,798,330	\$	737,520	-\$	40,517,086	\$	35,425,953
N/A	1905	Land	\$ 19,942,005			\$	19,942,005	-\$	18,895	-\$	4,047			-\$	22,942	\$	19,919,063
47	1908	Buildings & Fixtures	\$ 97,303,801	\$ 352,679		\$	97,656,480	-9	17,574,488	-\$	3,216,137			-\$	20,790,625	\$	76,865,855
13	1910	Leasehold Improvements	\$ -			\$	-	9	3 -					\$	-	\$	-
8	1915	Office Furniture & Equipment (10 years)	\$ 4,647,019	\$ 50,383		\$	4,697,402	-9	2,363,864	-\$	394,788			-\$	2,758,652	\$	1,938,750
8	1915	Office Furniture & Equipment (5 years)	\$ -			\$	-	9	3 -					\$	-	\$	-
10	1920	Computer Equipment - Hardware	\$ -			\$	-	9	-					\$	-	\$	-
45	1920	Computer EquipHardware(Post Mar. 22/04)	\$ -			\$	-	9	S -					\$	-	\$	-
50	1920	Computer EquipHardware(Post Mar. 19/07)	\$ 16,648,437	\$ 887,744		\$	17,536,181	-\$	11,294,500	-\$	1,973,655			-\$	13,268,155	\$	4,268,026
10	1930	Transportation Equipment	\$ 27,203,561	\$ 1,844,412	-\$ 946,992	\$	28,100,981	-9	9,588,480	-\$	2,033,557	\$	901,989	-\$	10,720,048	\$	17,380,933
8	1935	Stores Equipment	\$ 560,703			\$	560,703	-9	252,932	-\$	56,225			-\$	309,157	\$	251,546
8	1940	Tools, Shop & Garage Equipment	\$ 5,857,227	\$ 464,863		\$	6,322,090	-9	3,634,530	-\$	452,760			-\$	4,087,290	\$	2,234,800
8	1945	Measurement & Testing Equipment	\$ 209,467			\$	209,467	-9		-\$	130			-\$	209,214	\$	253
8	1950	Power Operated Equipment	\$ 1,620,684			\$	1,620,684	-9	671,927	-\$	87,380			-\$	759,307	\$	861,377

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8	1955	Communications Equipment	\$	22,117,465	\$ 781,255		\$	22,898,720	-\$	11,382,674	-\$	2,136,078		-\$	13,518,752	\$	9,379,968
8	1955	Communication Equipment (Smart Meters)	\$	-			\$	-	\$	-				\$	-	\$	-
8	1960	Miscellaneous Equipment	\$	537,121			\$	537,121	-\$	252,597	-\$	41,268		-\$	293,865	\$	243,256
47	1970	Load Management Controls Customer Premises	\$	350,910			\$	350,910	-\$	52,636	-\$	35,091		-\$	87,727	\$	263,183
47	1975	Load Management Controls Utility Premises	\$	203,443			\$	203,443	-\$	30,516	-\$	20,344		-\$	50,860	\$	152,583
47	1980	System Supervisor Equipment	\$	19,021,167	\$ 1,094,855		\$	20,116,022	-\$	9,833,895	-\$	1,082,628		-\$	10,916,523	\$	9,199,499
47	1985	Miscellaneous Fixed Assets	\$	-			\$	-	\$	-				\$	-	\$	-
47	1990	Other Tangible Property	\$	-			\$	-	\$	-				\$	-	\$	-
47	1995	Contributions & Grants	\$	-			\$	-	\$	-				\$	-	\$	-
47	2440	Deferred Revenue5	-\$	264,756,598	-\$ 20,689,619	\$ 370,000	-\$	285,076,217	\$	39,546,196	\$	9,416,952	-\$ 370,000	\$	48,593,148	-\$ 2	236,483,069
							\$	-						\$	-	\$	-
		Sub-Total	\$	1,715,711,586	\$ 83,348,385	-\$ 2,800,571	\$ 1	,796,259,400	-\$	438,922,310	-\$	60,584,926	\$ 1,487,575	-\$ 4	498,019,661	\$ 1	,298,239,739
		Less Socialized Renewable Energy Generation Investments (input as negative)					\$	-						\$	-	\$	-
		Less Other Non Rate-Regulated Utility Assets (input as negative)					\$	-						\$	-	\$	-
		Total PP&E	\$	1,715,711,586	\$ 83,348,385	-\$ 2,800,571	\$ 1	,796,259,400	-\$	438,922,310	-\$	60,584,926	\$ 1,487,575	-\$ 4	498,019,661	\$ 1	,298,239,739
		Depreciation Expense adj. from gain or los	ss on	the retirement	of assets (poo	ol of like asset	ts), i	f applicable6									
		Total										60,584,926					

Less: Fully Allocated Depreciation

Transportation

Stores Equipment

Stores Equipment

Stores Equipment

Net Depreciation -\$ 60,584,926

Notes:

- Tables in the format outlined above covering all fixed asset accounts should be submitted for the Test Year, Bridge Year and all relevant historical years. At a minimum, the applicant must provide data for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.
- The "CCA Class" for fixed assets should generally agree with the CCA Class used for tax purposes in Tax Returns. Fixed Assets sub-components may be used where the underlying asset components are classified under multiple CCA Classes for tax purposes. If an applicant uses any different classes from those shown in the table, an explanation should be provided. (also see note 3).
- 3 The table may need to be customized for a utility's asset categories or for any new asset accounts announced or authorized by the OEB.
- The additions in column (E) must not include construction work in progress (CWIP).
- 5 Effective on the date of IFRS adoption, customer contributions will no longer be recorded in Account 1995 Contributions & Grants, but will be recorded in Account 2440, Deferred Revenues.
- The applicant must ensure that all asset disposals have been clearly identified in the Chapter 2 Appendices for all historic, bridge and test years. Where a distributor for general financial reporting purposes under IFRS has accounted for the amount of gain or loss on the retirement of assets in a pool of like assets as a charge or credit to income, for reporting and rate application filings, the distributor shall reclassify such gains and losses as depreciation expense, and disclose the amount separately.

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UPDATED - Appendix 2-BA Fixed Asset Continuity Schedule 1

Accounting Standard MIFRS

Year 2025

				Cos	st					Accu	ımulated [Deprec	iation				
CCA Class 2	OEB Account 3	Description 3	Opening Balance	Additions 4	Disposals 6	Closing Bal	ance		Opening Balance	Ad	ditions	Dispo	sals 6		Closing Balance	N	let Book Value
	1609	Capital Contributions Paid	\$ 89,259,324	\$ 7,300,000		\$ 96,559	,324	-\$	9,918,346	-\$ 2	2,013,783			-\$	11,932,129	\$	84,627,195
12	1611	Computer Software (Formally known as Account 1925)	\$ 99,266,566	\$ 16,854,811		\$ 116,121	,377	-\$	80,453,149	-\$ 11	1,048,698			-\$	91,501,847	\$	24,619,530
CEC	1612	Land Rights (Formally known as Account 1906)	\$ 2,584,175	\$ 12,376		\$ 2,596	,551	-\$	636,678	-\$	60,507			-\$	697,185	\$	1,899,366
N/A	1805	Land	\$ 4,824,643	\$ 779,683		\$ 5,604	,326	\$	-					\$	-	\$	5,604,326
47	1808	Buildings	\$ 40,951,113	\$ 1,416,046		\$ 42,367	,159	-\$	9,289,847	-\$ 1	,046,267			-\$	10,336,114	\$	32,031,045
13	1810	Leasehold Improvements	\$ -			\$	-	\$	-					\$	-	\$	-
47	1815	Transformer Station Equipment >50 kV	\$ 161,639,128	\$ 9,223,210		\$ 170,862	,338	-\$	39,143,205	-\$ 5	5,003,121			-\$	44,146,326	\$ 1	126,716,012
47	1820	Distribution Station Equipment <50 kV	\$ 174,438,943	\$ 26,747,897	-\$ 96,181	\$ 201,090	,659	-\$	45,060,429	-\$ 5	5,417,445	\$ 5	5,028	-\$	50,422,846	\$ 1	150,667,813
47	1825	Storage Battery Equipment	\$ -			\$	-	\$	-					\$	-	\$	-
47	1830	Poles, Towers & Fixtures	\$ 181,236,058	\$ 8,003,940	-\$ 313,703	\$ 188,926	,295	-\$	35,349,382	-\$ 4	1,462,353	\$ 3	0,864	-\$	39,780,871	\$ 1	149,145,424
47	1835	Overhead Conductors & Devices	\$ 194,595,710	\$ 11,674,276	-\$ 230,544	\$ 206,039	,442	-\$	36,609,575	-\$ 5	5,217,477	\$ 2	6,635	-\$	41,800,417	\$ 1	164,239,025
47	1840	Underground Conduit	\$ 326,922,174	\$ 18,528,470		\$ 345,450	,644	-\$	59,332,284	-\$ 8	3,650,400			-\$	67,982,684	\$ 2	277,467,960
47	1845	Underground Conductors & Devices	\$ 281,741,232	\$ 17,532,469	-\$ 359,069	\$ 298,914	,632	-\$	60,998,168	-\$ 8	3,839,416	\$ 6	4,812	-\$	69,772,772	\$ 2	229,141,860
47	1850	Line Transformers	\$ 133,525,380	\$ 7,363,590	-\$ 220,567	\$ 140,668	,403	-\$	31,895,241	-\$ 4	,226,186	\$ 4	0,727	-\$	36,080,700	\$ 1	104,587,703
47	1855	Services (Overhead & Underground)	\$ 93,655,922	\$ 4,429,274		\$ 98,085	,196	-\$	19,616,302	-\$ 2	2,357,841			-\$	21,974,143	\$	76,111,053
47	1860	Meters	\$ -			\$	-	\$	-					\$	-	\$	-
47	1860	Meters (Smart Meters)	\$ 75,943,039	\$ 6,783,965	-\$ 1,042,534	\$ 81,684	,470	-\$	40,517,086	-\$ 3	3,974,133	\$ 77	4,834	-\$	43,716,385	\$	37,968,085
N/A	1905	Land	\$ 19,942,005			\$ 19,942	,005	-\$	22,942	-\$	4,047			-\$	26,989	\$	19,915,016
47	1908	Buildings & Fixtures	\$ 97,656,480	\$ 352,679		\$ 98,009	,159	-\$	20,790,625	-\$ 3	3,204,028			-\$	23,994,653	\$	74,014,506
13	1910	Leasehold Improvements	\$ -			\$	-	\$	-					\$	-	\$	-
8	1915	Office Furniture & Equipment (10 years)	\$ 4,697,402	\$ 50,383		\$ 4,747	,785	-\$	2,758,652	-\$	392,323			-\$	3,150,975	\$	1,596,810
8	1915	Office Furniture & Equipment (5 years)	\$ -			\$	-	\$	-					\$	-	\$	-
10	1920	Computer Equipment - Hardware	\$ -			\$	-	\$	-					\$	-	\$	-
45	1920	Computer EquipHardware(Post Mar. 22/04)	\$ -			\$	-	\$	-					\$	-	\$	-
50	1920	Computer EquipHardware(Post Mar. 19/07)	\$ 17,536,181	\$ 1,573,599		\$ 19,109	,780	-\$	13,268,155	-\$ 1	1,958,576			-\$	15,226,731	\$	3,883,049
10	1930	Transportation Equipment	\$ 28,100,981	\$ 467,753	-\$ 368,933	\$ 28,199	,801	-\$	10,720,048	-\$ 2	2,158,407	\$ 34	6,202	-\$	12,532,253	\$	15,667,548
8	1935	Stores Equipment	\$ 560,703			\$ 560	,703	-\$	309,157	-\$	56,224			-\$	365,381	\$	195,322
8	1940	Tools, Shop & Garage Equipment	\$ 6,322,090	\$ 468,679		\$ 6,790	,769	-\$	4,087,290	-\$	461,217			-\$	4,548,507	\$	2,242,262
8	1945	Measurement & Testing Equipment	\$ 209,467			\$ 209	,467	-\$	209,214	-\$	103			-\$	209,317	\$	150
8	1950	Power Operated Equipment	\$ 1,620,684	\$ 461,909	-\$ 4,356	\$ 2,078	,237	-\$	759,307	-\$	89,388	\$	3,904	-\$	844,791	\$	1,233,446

Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 2 Schedule 1 Attachment J UPDATED May 5, 2020 Page 2 of 2

8	1955	Communications Equipment	\$	22,898,720	\$	1,733,822		\$	24,632,542	-\$	13,518,752	-\$	1,885,121		-\$	15,403,873	\$	9,228,669
8	1955	Communication Equipment (Smart Meters)	\$	-	Ť	., , , , , , ,		\$	- 1,132,012	\$	-	1	.,,		\$		s	-
8	1960	Miscellaneous Equipment	\$	537,121	\$	24,987		\$	562,108	-\$	293,865	-\$	41,830		-\$	335,695	\$	226,413
47	1970	Load Management Controls Customer Premises	\$	350,910	_	21,001		\$	350,910	-\$	87,727	-\$	35,091		-\$	122,818	\$	228,092
47	1975	Load Management Controls Utility Premises	\$	203,443				\$	203,443	-\$	50,860	-\$	20,344		-\$	71,204	\$	132,239
47	1980	System Supervisor Equipment	\$	20,116,022	\$	1,533,324		\$	21,649,346	-\$	10,916,523	-\$	1,081,462		-\$	11,997,985	\$	9,651,361
47	1985	Miscellaneous Fixed Assets	\$	-				\$	-	\$	-				\$	-	\$	-
47	1990	Other Tangible Property	\$	-				\$	-	\$	-				\$	-	\$	-
47	1995	Contributions & Grants	\$	-				\$	-	\$	-				\$	-	\$	-
47	2440	Deferred Revenue5	-\$	285,076,217	-\$	20,758,380	\$ 410,000	-\$	305,424,597	\$	48,593,148	\$	9,805,553	-\$ 410,000	\$	57,988,701	-\$ 2	47,435,896
								\$	-						\$	-	\$	-
		Sub-Total	\$	1,796,259,400	\$	122,558,762	-\$ 2,225,887	\$	1,916,592,275	-\$	498,019,661	-\$	63,900,235	\$ 933,006	-\$	560,986,890	\$ 1	,355,605,385
		Less Socialized Renewable Energy Generation Investments (input as negative)						\$	-						\$	-	\$	-
		Less Other Non Rate-Regulated Utility Assets (input as negative)						\$	-						\$	-	\$	-
		Total PP&E	\$	1,796,259,400	\$	122,558,762	-\$ 2,225,887	\$	1,916,592,275	-\$	498,019,661	-\$	63,900,235	\$ 933,006	-\$	560,986,890	\$ 1	,355,605,385
		Depreciation Expense adj. from gain or los	ss o	n the retirement	of	assets (poo	l of like asset	ts),	if applicable6	•								
		Total										-\$	63,900,235	1				

Less: Fully Allocated Depreciation

10	Transportation	Transportation	
8	Stores Equipment	Stores Equipment	
		Net Depreciation -\$ 63,90	00,235

Notes:

- Tables in the format outlined above covering all fixed asset accounts should be submitted for the Test Year, Bridge Year and all relevant historical years. At a minimum, the applicant must provide data for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.
- The "CCA Class" for fixed assets should generally agree with the CCA Class used for tax purposes in Tax Returns. Fixed Assets sub-components may be used where the underlying asset components are classified under multiple CCA Classes for tax purposes. If an applicant uses any different classes from those shown in the table, an explanation should be provided. (also see note 3).
- 3 The table may need to be customized for a utility's asset categories or for any new asset accounts announced or authorized by the OEB.
- 4 The additions in column (E) must not include construction work in progress (CWIP).
- 5 Effective on the date of IFRS adoption, customer contributions will no longer be recorded in Account 1995 Contributions & Grants, but will be recorded in Account 2440, Deferred Revenues.
- The applicant must ensure that all asset disposals have been clearly identified in the Chapter 2 Appendices for all historic, bridge and test years. Where a distributor for general financial reporting purposes under IFRS has accounted for the amount of gain or loss on the retirement of assets in a pool of like assets as a charge or credit to income, for reporting and rate application filings, the distributor shall reclassify such gains and losses as depreciation expense, and disclose the amount separately.



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UPDATED WORKING CAPITAL REQUIREMENT

2

3 **1.** INTRODUCTION

4 This Schedule provides a summary of the Working Capital Requirement for the Bridge Year

5 2020 and the Test Years 2021-2025.

6

7 Table 1 summarizes the 2016-2020 approved working capital allowance ("WCA"), as per the

8 Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term.¹

9

10

Table 1 – OEB-Approved Working Capital Allowance 2016-2020 (\$'000s)

	2016	2017	2018	2019	2020
Power Supply Expenses	\$894,825	\$911,714	\$947,559	\$928,734	\$945,199
OM&A Expenses	\$83,106	\$84,693	\$86,311	\$87,959 ²	\$89,639 ³
Total Expenses for Working Capital ⁴	\$977,391	\$966,407	\$1,033,869	\$1,016,693	\$1,034,838
Working Capital %	7.89%	7.89%	7.92%	7.55%	7.52%
TOTAL WCA	\$77,166	\$78,617	\$81,882	\$76,760	\$77,820

11

12 Table 2 below provides the Historical and Bridge Year WCA amounts for 2016-2020.

¹³ ¹ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015), Schedule A, page 15.

¹⁴ Figure does not reflect mid-term operations, maintenance and administration ("OM&A") adjustment.

¹⁵ Figure does not reflect mid-term OM&A adjustment.

^{16 &}lt;sup>4</sup> Totals may not sum due to rounding.



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Table 2 – AS ORIGINALLY SUBMITTED – Working Capital Allowance 2016-2020 (\$'000s)

	Historical			Bridge	
	2016	2017	2018	2019	2020
Power Supply Expenses	\$965,239	\$875,802	\$852,917	\$928,734	\$945,199
OM&A Expenses	\$82,621	\$82,245	\$86,863	\$87,545	\$91,990
Total Expenses for Working Capital	\$1,047,860	\$958,047	\$939,780	\$1,016,279	\$1,037,189
Working Capital %	7.89%	7.89%	7.92%	7.50%	7.50%
TOTAL WCA	\$82,676	\$75,590	\$74,431	\$76,221	\$77,789

2

3 Table 2 – UPDATED FOR 2019 ACTUALS – Working Capital Allowance 2016-2020 (\$'000s)

		Historical				
	2016	2017	2018	2019	2020	
Power Supply Expenses	\$965,239	\$875,802	\$852,917	\$892,224	\$945,199	
OM&A Expenses	\$82,621	\$82,245	\$86,863	\$83,113	\$91,990	
Total Expenses for Working Capital	\$1,047,860	\$958,047	\$939,780	\$975,337	\$1,037,189	
Working Capital %	7.89%	7.89%	7.92%	7.55%	7.52%	
TOTAL WCA	\$82,676	\$75,590	\$74,431	\$73,638	\$77,997	

⁵ Table 3 below provides a summary of Hydro Ottawa's proposed WCA for 2021-2025.



Hydro Ottawa Limited
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1 Table 3 – AS ORIGINALLY SUBMITTED – Proposed Working Capital Allowance 2021-2025

2 **(\$'000s)**

	2021	2022	2023	2024	2025
Power Supply Expenses	\$1,025,613	\$1,097,187	\$1,167,387	\$1,264,188	\$1,310,655
OM&A Expenses	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Total Expenses for Working Capital ⁵	\$1,119,535	\$1,193,467	\$1,266,084	\$1,365,362	\$1,414,39
Working Capital %	7.50%	7.50%	7.50%	7.50%	7.50%
TOTAL WCA	\$83,865	\$89,510	\$94,956	\$102,402	\$106,078

3

4Table 3 – UPDATED FOR 2019 ACTUALS – Proposed Working Capital Allowance 2021-2025 (\$'000s)

	2021	2022	2023	2024	2025
Power Supply Expenses	\$1,037,684	\$1,109,199	\$1,180,417	\$1,277,162	\$1,323,611
OM&A Expenses	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Total Expenses for Working Capital ⁶	\$1,131,607	\$1,205,479	\$1,279,114	\$1,378,336	\$1,427,324
Working Capital %	7.50%	7.50%	7.50%	7.50%	7.50%
TOTAL WCA	\$84,870	\$90,411	\$95,934	\$103,375	\$107,049

6

7 2. WORKING CAPITAL PERCENTAGE

- 8 As part of Hydro Ottawa's 2016-2020 rate application, the OEB approved a yearly WCA
- 9 percentage. The utility's approved 2016-2020 WCA percentages are shown in Table 1 above.

- 11 UPDATED Exhibit 2-1-1: Rate Base Overview incorporates the OEB's default WCA percentage
- 12 of 7.5%, as outlined in the updated version of Table 3 above, for 2021-2025 working capital
- 13 requirement included in Hydro Ottawa's 2021-2025 rate base.

^{14 5} Totals may not sum due to rounding.

^{15 &}lt;sup>6</sup> Totals may not sum due to rounding.



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1 3. OPERATIONS, MAINTENANCE AND ADMINISTRATION

- 2 For more details on the OM&A expenses used in Table 1 above, please see **UPDATED** Exhibit
- 3 4-1-1: Operations, Maintenance and Administration Summary.

5 4. CALCULATION OF POWER SUPPLY EXPENSE

- 6 The billing determinants underpinning the estimated Power Supply Expense use the forecasted
- 7 monthly purchased kWh and peak kW produced by the load forecast described in UPDATED
- 8 Exhibit 3-1-1: Load Forecast. The forecast calculation for commodity expense is detailed in
- 9 Appendix 2-Z, in the following attachments:
- 10

- UPDATED Attachment 2-3-1(A): OEB Appendix 2-Z 2021 Commodity Expense
- **UPDATED** Attachment 2-3-1(B): OEB Appendix 2-Z 2022 Commodity Expense
- UPDATED Attachment 2-3-1(C): OEB Appendix 2-Z 2023 Commodity Expense
- UPDATED Attachment 2-3-1(D): OEB Appendix 2-Z 2024 Commodity Expense
- UPDATED Attachment 2-3-1(E): OEB Appendix 2-Z 2025 Commodity Expense
- 16
- 17 UPDATED Attachment 2-3-1(F): 2021-2025 Cost of Power provides the complete Power Supply
- 18 Expenses for the 2021-2025 period, as described within this Schedule. There are slight no
- 19 variances in the annual commodity expense in **UPDATED** Attachments (A) through (E) and
- 20 UPDATED Attachment (F) due to rounding differences. Table 4, as updated below, outlines the
- 21 estimate of annual cost of power expenditures for 2021-2025.



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Table 4 – AS ORIGINALLY SUBMITTED – Summary of Estimated Annual Cost of Power Expenses (\$'000s)

	2021	2022	2023	2024	2025
Commodity	\$903,076	\$972,245	\$1,040,983	\$1,135,265	\$1,179,158
Wholesale Market	\$28,423	\$28,514	\$28,628	\$28,823	\$28,881
Transmission Network	\$55,056	\$56,367	\$57,032	\$58,347	\$59,772
Transmission Connection	\$36,335	\$37,308	\$37,962	\$38,943	\$40,007
Smart Meter Entity Charge	\$2,304	\$2,328	\$2,351	\$2,372	\$2,393
Low Voltage	\$419	\$426	\$432	\$439	\$446
TOTAL ⁷	\$1,025,613	\$1,097,187	\$1,167,387	\$1,264,188	\$1,310,655

Table 4 – AS REVISED – Summary of Estimated Annual Cost of Power Expenses (\$'000s)

	2021	2022	2023	2024	2025
Commodity	\$903,076	\$972,245	\$1,040,983	\$1,135,265	\$1,179,158
Wholesale Market	\$28,423	\$28,514	\$28,628	\$28,823	\$28,881
Transmission Network	\$54,430	\$55,706	\$57,032	\$58,347	\$59,772
Transmission Connection	\$36,017	\$36,971	\$37,962	\$38,943	\$40,007
Smart Meter Entity Charge	\$2,304	\$2,328	\$2,351	\$2,372	\$2,393
Low Voltage	\$419	\$426	\$432	\$439	\$446
TOTAL ⁸	\$1,024,670	\$1,096,190	\$1,167,387	\$1,264,188	\$1,310,655

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 $^{^{7}\,}$ 7 Totals may not sum due to rounding. $^{8}\,$ Totals may not sum due to rounding.



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Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 3 Schedule 1 **UPDATED** May 5, 2020 Page 6 of 12

Table 4 - UPDATED FOR 2019 ACTUALS - Summary of Estimated Annual Cost of Power Expenses (\$'000s)

	2021	2022	2023	2024	2025
Commodity	\$921,604	\$990,892	\$1,059,793	\$1,154,128	\$1,198,186
Wholesale Market	\$28,414	\$28,504	\$28,617	\$28,810	\$28,868
Transmission Network	\$51,439	\$52,652	\$53,903	\$55,164	\$56,492
Transmission Connection	\$33,504	\$34,398	\$35,321	\$36,249	\$37,226
Smart Meter Entity Charge	\$2,304	\$2,328	\$2,351	\$2,372	\$2,393
Low Voltage	\$419	\$426	\$432	\$439	\$446
TOTAL ⁹	\$1,037,684	\$1,109,199	\$1,180,417	\$1,277,162	\$1,323,611

4 Figure 1 below, as originally submitted, illustrates Hydro Ottawa's annual cost of power expense

5 from 2015-2025. Annual amounts from 2015-2018 are Historical, 2019-2020 are Bridge Years,

and 2021-2025 have been forecasted as described in the subsections of this Schedule. The

decrease in annual power supply expenditures from 2016-2019 can be attributed to the impacts

from the Ontario Fair Hydro Plan Act, 2017 ("Fair Hydro Plan").

The updated version of Figure 1 below illustrates Hydro Ottawa's annual cost of power expense

from 2015-2025. Annual amounts from 2015-2019 are Historical, 2020 is Bridge Year, and

2021-2025 have been forecasted as described in the subsections of this Schedule. The

decrease in annual power supply expenditures from 2016-2019 can be attributed to the impacts

14 from the Fair Hydro Plan.

¹⁵ Totals may not sum due to rounding.



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1 Figure 1 – AS ORIGINALLY SUBMITTED – Cost of Power Expense 2015-2025 (\$'000,000s)

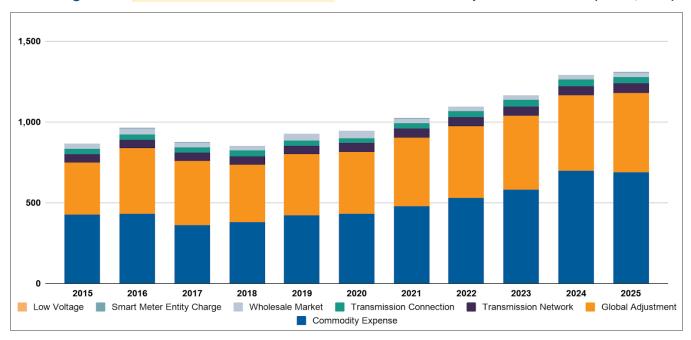
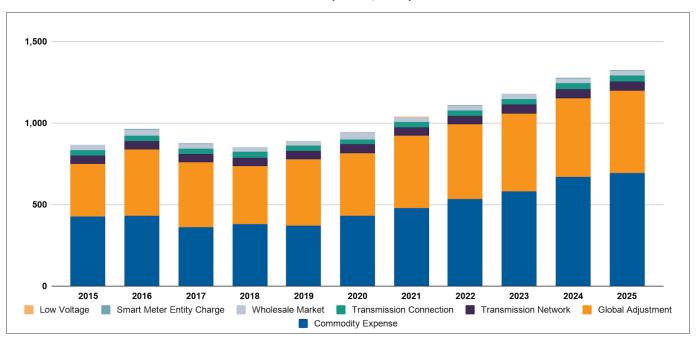


Figure 1 – UPDATED FOR 2019 ACTUALS – Cost of Power Expense 2015-2025

(\$'000,000s)





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1 4.1. COMMODITY EXPENSE AND GLOBAL ADJUSTMENT

2 As per the OEB's Chapter 2 Filing Requirements for Electricity Distribution Rate Applications, as

3 updated on July 12, 2018 and addended on July 15, 2019, Hydro Ottawa has completed

4 Appendix 2-Z: Commodity Expense for 2021-2025.

5

Effective November 1, 2019, the provisions of the Fair Hydro Plan under which the OEB had been setting Regulated Price Plan ("RPP") prices was repealed. The OEB has since set RPP prices which more closely reflect the actual cost of supply. Hydro Ottawa has followed the direction OEB staff provided to Kingston Hydro Corporation in the follow-up questions for its 2020 Custom Incentive Rate-Setting ("Custom IR") Annual Update (EB-2019-0048). On November 1, 2019, OEB staff updated Appendix 2-Z to accommodate the changes to the supply cost calculation. These changes consist of the following: the amount for the Global Adjustment Modifier has been removed from the calculation; the non-RPP Actual kWh have not been split between customers eligible for the Global Adjustment modifier and non-eligible customers; and the adjustment to address bias towards unfavourable variance has only been applied to RPP

1617

price forecast.

As originally submitted, Hydro Ottawa has used 2018 Actual kWh and split each class by RPP and non-RPP and Class A and Class B customers to determine the percentage shares for the calculation of weighted average forecasted commodity expense. In accounting for 2019 actuals, the utility has subsequently updated its calculations to incorporate 2019 Actual kWh. The kWh for Class A customers who opted-in July 2019 have been annualized and the number of customers kept consistent. The RPP Supply Cost Summary from the OEB's most recent Regulated Price Plan Report has been used to determine the 2020 forecast commodity price. For 2021-2025, Hydro Ottawa has used residential and commercial factors derived from

_

²⁶ Ontario Energy Board, *Regulated Price Plan: Price Report November 1, 2019 to October 31, 2020* (October 22, 2019), page 1.

²⁸ ¹¹ Kingston Hydro Corporation, *Responses to OEB Staff follow-up Questions*, EB-2019-0048 (November 1, 2019),

page 4.

30 page 4.

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34 page 4.

35 page 5.

36 page 6.

37 page 9.

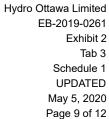
38 page 6.

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30 page 9.





- 1 Ontario's 2017 Long Term-Energy Plan¹³ ("LTEP") to estimate the RPP, Global Adjustment, and
- 2 Hourly Ontario Energy Price ("HOEP"), as described below.

4 4.1.1. Estimated RPP Price

- 5 The commodity price for RPP customers was calculated by using the OEB's Regulated Price
- 6 Plan Report. The RPP rate of \$128.03/MWh was multiplied by a yearly residential factor derived
- 7 from the LTEP to arrive at a yearly RPP commodity rate for 2021-2025. Table 5 provides the
- 8 estimated RPP price for 2020-2025.

9

Table 5 – Estimated RPP Price (kWh)

2020	2021	2022	2023	2024	2025
\$0.12803	\$0.13203	\$0.14203	\$0.15204	\$0.16404	\$0.17104

11

12 4.1.2. Estimated Global Adjustment

- 13 The most recent Global Adjustment rate of \$106.94/MWh from the Regulated Price Plan Report
- 14 was multiplied by a commercial factor derived from the LTEP to arrive at a yearly Global
- 15 Adjustment rate for 2021-2025. Please see Table 6 below for the yearly rates.

16 17

Table 6 – Estimated Global Adjustment (kWh)

2020	2021	2022	2023	2024	2025
\$0.10694	\$0.10949	\$0.11458	\$0.12094	\$0.12222	\$0.12986

18

19 4.1.3. Estimated HOEP

- 20 For 2021-2025, the estimated HOEP rate has been calculated by taking the estimated annual
- 21 Average Supply Cost for RPP customers and subtracting the annual estimated Global
- 22 Adjustment and adjustment to address bias towards unfavourable variance. Table 7 identifies
- 23 the estimated HOEP prices for 2021-2025.

. .

²⁴ ¹³ Ministry of Energy, *Ontario's Long-Term Energy Plan 2017: Delivering Fairness and Choice* (2017), pages 28-30.



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Table 7 – Estimated HOEP (kWh)

2020	2021	2022	2023	2024	2025
\$0.02009	\$0.02154	\$0.02645	\$0.03009	\$0.04082	\$0.04018

3 4.1.4. Estimated Weighted Average Commodity Price

As originally submitted, Hydro Ottawa calculated the weighted average commodity price from the percentage shares of RPP and non-RPP derived from the allocation of the non-loss-adjusted 2018 Actual kWh for 2021-2025. In accounting for 2019 actuals, the utility has subsequently updated its calculations to incorporate 2019 Actual kWh. The annual forecasted loss-adjusted kWh purchases by class were multiplied by the annual weighted average forecasted commodity price. Table 8 shows the estimated weighted average commodity price for 2021-2025.

11 12

13

17

1

2

Table 8 – Estimated Weighted Average Commodity Price (kWh)

2020	2021	2022	2023	2024	2025
\$0.1235	\$0.13160	\$0.1416	\$0.1516	\$0.1636	\$0.1706

14 4.2. WHOLESALE EXPENSE

15 The Wholesale Market Charge is calculated by multiplying the total kWh purchased by the 2019 16 approved rate of \$0.0039/kWh for all years.

18 4.3. TRANSMISSION EXPENSE

The forecasted kW monthly coincident peak is multiplied by historic percentages for each transmission charge to establish the kWs for those charges. These calculations have been updated to incorporate 2019 Actual percentages. Table 9 below outlines the yearly rates calculated for Hydro One Networks Inc. ("HONI") Retail Transmission Service Rates ("RTSRs") and Uniform Transmission Rates ("UTRs").



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Table 9 – Retail Transmission Service & Uniform Transmission Rates (\$/kW)

	2020	2021	2022	2023	2024	2025
RTSR - Network Service	\$3.3980	\$3.3980	\$3.4507	\$3.5042	\$3.5585	\$3.6137
RTSR - Line Connection Rate	\$0.8045	\$0.8045	\$0.8170	\$0.8297	\$0.8426	\$0.8557
RTSR - Transformation Connection Service Rate	\$2.0194	\$2.0194	\$2.0507	\$2.0825	\$2.1148	\$2.1476
UTRs - Network	\$3.92	\$3.92	\$4.00	\$4.08	\$4.16	\$4.24
UTRs - Line Connection	\$0.97	\$0.97	\$0.99	\$1.01	\$1.03	\$1.05
UTRs - Transformation Connection	\$2.33	\$2.33	\$2.38	\$2.43	\$2.48	\$2.53

2

1

3 **4.3.1**. **HONI Transmission Rates**

- 4 For 2021, the kWs have been multiplied by the 2020 OEB-approved HONI RTSRs. 14 Hydro
- 5 Ottawa has increased the transmission rates for 2022-2025 based on the inflationary method as
- 6 described in the proceeding before the OEB involving HONI's most recent Custom IR
- 7 Distribution Rate Application. 15 RTSR rates for 2021 and 2022 have been revised in UPDATED
- 8 Attachment 2-3-1(F): Cost of Power 2021-2025.

9

Uniform Transmission Rates 10 **4.3.2.**

- 11 For 2021, the kWs have been multiplied by the 2020 Interim UTRs. 16 Hydro Ottawa has
- 12 increased the transmission rates for 2022-2025 based on the 2020 OEB-approved inflationary
- 13 factor.

14

LOW VOLTAGE CHARGES

- 16 To estimate the expense for 2021, historical kW values for Low Voltage and Common Sub
- 17 Transmission Line ("Common ST Lines") have been multiplied by the 2020 OEB-approved

¹⁸ Ontario Energy Board, *Decision and Order*, EB-2019-0043 (December 17, 2019), Schedule A, page 8.

¹⁹ Hydro One Networks Inc., 2018-2022 Custom Incentive Rate-setting Distribution Rate Application, EB-2017-0049

^{20 (}March 31, 2017), Exhibit A-3-2, page 3.
21 ¹⁶ Ontario Energy Board, *Decision and Order*, EB-2019-0296 (December 19, 2019), Schedule A.



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- 1 HONI rates.¹⁷ Hydro Ottawa has used the historical kW amounts for 2022-2025 and has
- 2 adjusted the annual rates by the inflationary method as described in HONI's most recent
- 3 Custom IR Distribution Rate Application. The yearly rates calculated are outlined in Table 10.

4 5

Table 10 – Low Voltage Charges (\$/kWh)

	2020	2021	2022	2023	2024	2025
Connection to Common ST Lines	\$1.4854	\$1.4854	\$1.5084	\$1.5318	\$1.5555	\$1.5797
Connection to low-voltage delivery*	\$3.8047	\$3.8047	\$3.8637	\$3.9236	\$3.9844	\$4.0461

^{6 *}High Voltage Distribution Station

7

8 4.5. SMART METERING ENTITY CHARGE

- 9 On March 1, 2018, the OEB approved a Smart Metering Entity charge of \$0.57 per Residential
- 10 and General Service <50 kW customer for the period January 1, 2018 to December 31, 2022.18
- 11 This rate has been used for 2021-2025, without adjustment for inflation. As per the OEB
- 12 decision, Hydro Ottawa has used the most recent OEB Yearbook count for Residential and
- 13 General Service <50 kW customers to calculate the annual expense. The revenue has been
- 14 derived based on the monthly load forecast.

15

16 4.6. LOW VOLTAGE SWITCHGEAR CREDIT

- 17 Power Supply Expenses were adjusted to reflect the Low Voltage Switchgear credit which
- 18 Hydro Ottawa receives as a result of owning the low voltage switchgear at certain stations.

^{19 17} Ontario Energy Board, *Decision and Order*, EB-2019-0043 (December 17, 2019), Schedule A, page 8.

²⁰ ¹⁸ Ontario Energy Board, *Decision and Order*, EB-2017-0290 (March 1, 2018), page 5.

UPDATED - 2021 Commodity Expense

1:	Allocation of Commodity				201	Historical Act	uais				
						non-RPP		RPP	Proportions	(by Class)	
							Total		non-RPP	RPP	
	Customer Class Name	Last Actual k	h's Class A I	Wh Class B kWh		•	•		%	%	
	Residential	2,263,21	,648	2,263,214,648	8 42,764,06		42,764,069	2,220,450,579	1.89%	98.11%	
	General Service < 50 kW	724,76	,279	724,761,279	9 111,717,61		111,717,613	613,043,666	15.41%	84.59%	
	General Service 50 to 1,499 kW	2,881,55	,111 270,037	598 2,611,516,513	3 2,264,281,81		2,264,281,812	347,234,701	78.58%	12.05%	
	General Service 1,500-4999 kW	723,01	,994 523,851	645 199,166,349	9 198,751,26	l e	198,751,269	415,080	100.00%	0.06%	
	Large Use	602,08	.783 602,082				-	0	100.00%	0.00%	
	Unmetered Scattered Load	14,54		14,549,690			-	14,549,690	0.00%	100.00%	
	Sentinel Lighting	4	,813	47,813			-	47,813	0.00%	100.00%	
	Street Lighting	26,73	,515	26,730,515	26,730,51		26,730,515	0			
				-							
	TOTAL	7 235 95	833 1 305 073	026 5 839 986 807	2 644 245 27	0	2 644 245 278	3 105 7/1 520			
	TOTAL %	7,235,95	833 1,395,972 00%	5,839,986,807 100.009				3,195,741,529 54.72%	45.28%	54.72%	100.00
	2021 Forecasted Commodity Pr	ices			45.28]	54.72%			
	%	10			45.28	0.00%		54.72%		54.72% odifier: May 1, 201	
2a:	2021 Forecasted Commodity Pr	ices	00%	100.009	% 45.28	0.00%]	54.72%			
2a:	2021 Forecasted Commodity Pr	ices I(\$/MWh) Table 1: Average RPP Si Load-Weighted Price for RP	oply Cost Summ	100.009	% 45.28	6 0.00%]	54.72% Table 1: RPP			
2a:	2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices	ices I(\$/MWh) Table 1: Average RPP Si	oply Cost Summ	100.009	96 45.28 not	RPP \$21.54]	54.72% Table 1: RPP			
2a:	2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (\$IMWh)	ices I(\$/MWh) Table 1: Average RPP Si Load-Weighted Price for RP	oply Cost Summ	100.009	nor \$21.5 \$109.4	RPP \$21.54 \$109.49	Source:	54.72% Table 1: RPP RPP			
2a:	2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (\$MWh) Global Adjustment (\$MWh) Adjustments (\$MWh) TOTAL (\$MWh)	ices I(\$/MWh) Table 1: Average RPP Si Load-Weighted Price for RP	oo%	100.009	not	RPP \$21.54 \$109.49	Source:	54.72% Table 1: RPP RPP \$1.00 \$132.03			
	2021 Forecasted Commodity Pri GA Modifier Forecasted Commodity Prices HOEP (S/MWh) Global Adjustment (S/MWh) Adjustments (S/MWh) TOTAL (S/MWh) S/KWh	ICES I(S/MWh) Table 1: Average RPP Si ILoad-Weighted Price for RP Impact of the Global Adjustin Average Supply Cost for I	oo% ook Summers on the Consumers on the Consumers on the Consumers on the Consumers of the	100.009	noi	RPP \$21.54 \$109.49 \$131.03 \$0.13103	Source:	54.72% Table 1: RPP RPP \$1.00 \$132.03 \$0.13203			100.00
2a:	2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (\$MWh) Global Adjustment (\$MWh) Adjustments (\$MWh) TOTAL (\$MWh)	Ices I(s/MWh) Table 1: Average RPP Si ILoad-Weighted Price for RP Impact of the Global Adjustn Average Supply Cost for I non-RPP (GA mod/non-G	oo% ook Summers on the Consumers on the Consumers on the Consumers on the Consumers of the	100.009	noi	RPP -RPP \$21.54 \$109.49 \$131.03 \$.0.13103 6.0.00%	Source:	54.72% Table 1: RPP RPP \$1.00 \$132.03			

Step 3: Commodity Expense (volumes for the bridge and test year are loss adjusted)

Class A					2020					2021		
Customer	Revenue	Expense	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount
General Service 50 to 1,499 kW	4035	4705	274,888,999	562,912	0.02154	42.12	\$29,631,241	272,979,363	558,698	0.02154	42.12	\$29,412,613
General Service 1,500-4999 kW	4010	4705	525,469,818	1,074,232	0.02154	42.12	\$56,565,808	511,522,721	1,050,314	0.02154	42.12	\$55,257,939
Large Use			592,478,734	1,075,011	0.02154	42.12	\$58,042,305	577,220,889	1,052,901	0.02154	42.12	\$56,782,346
•			1,392,837,551	2,712,155			\$144,239,354	1,361,722,973	2,661,913			\$141,452,898

Class B						2020				2021	
Customer		Revenue	Expense								
Class Name	UoM	USA#	USA#	Volume	rate (\$/kWh):		Amount	Volume	rate (\$/kWh):		Amount
Residential	kWh	4006	4705	2,329,947,204	0.1235		\$287,748,480	2,329,086,271	\$0.1316		\$306,456,786
General Service < 50 kW	kWh	4010	4705	731,267,394	0.1235		\$90,311,523	723,526,640	\$0.1316		\$95,200,273
General Service 50 to 1,499 kW	kWh	4035	4705	2,658,434,108	0.1235		\$328,316,612	2,639,966,134	\$0.1316		\$347,361,774
General Service 1,500-4999 kW	kWh	4010	4705	199,781,573	0.1235		\$24,673,024	194,478,941	\$0.1316		\$25,589,173
Large Use	kWh	4025	4705	0	0.1235		\$0	0	\$0.1316		\$0
Unmetered Scattered Load	kWh	4025	4705	14,578,551	0.1235		\$1,800,451	14,061,748	\$0.1316		\$1,850,218
Sentinel Lighting	kWh	4025	4705	48,575	0.1235		\$5,999	48,589	\$0.1316		\$6,393
Street Lighting	kWh	4025	4705	24,870,144	0.1235		\$3,071,463	22,854,217	\$0.1316		\$3,007,115
Drycore	kWh	4025	4705	5,159,232	0.1235		\$637,165	5,160,730	\$0.1316		\$679,039
TOTAL				5,964,086,781			\$736,564,717	5,929,183,270			\$780,150,771

Total						2020				2021	
Customer		Revenue	Expense								
Class Name	UoM	USA#	USA#	Volume	avg rate (\$/kWh):		Amount	Volume	avg rate (\$/kWh):		
Residential	kWh	4006	4705	2,329,947,204	0.12350		\$287,748,480	2,329,086,271	0.1316		
General Service < 50 kW	kWh	4010	4705	731,267,394	0.12350		\$90,311,523	723,526,640	0.1316		
General Service 50 to 1,499 kW	kWh	4035	4705	2,933,323,107	0.12203		\$357,947,853	2,912,945,497	0.1293		
General Service 1,500-4999 kW	kWh	4010	4705	725,251,391	0.11201		\$81,238,832	706,001,662	0.1145		
Large Use	kWh	4025	4705	592,478,734	0.09797		\$58,042,305	577,220,889	0.0984		
Unmetered Scattered Load	kWh	4025	4705	14,578,551	0.12350		\$1,800,451	14,061,748	0.1316		
Sentinel Lighting	kWh	4025	4705	48,575	0.12350		\$5,999	48,589	0.1316		
Street Lighting	kWh	4025	4705	24,870,144	0.12350		\$3,071,463	22,854,217	0.1316		
Drycore	kWh	4025	4705	5,159,232	0.12350		\$637,165	5,160,730	0.1316		
TOTAL				7,356,924,332			\$880,804,071	7,290,906,243			:

^{*}Regulated Price Plan Prices and the Global Adjustment Modifier for the Period May 1, 2019 – April 30, 2020
** Regulated Price Plan Cost Suppy Report May 1, 2019 - April 30, 2020

UPDATED - 2022 Commodity Expense

Step 1:	Allocation of Commodity					2019 H	istorical Actu	uals				
							non-RPP		RPP	Proportions	(by Class)	
								Total		non-RPP	RPP	
	Customer Class Name	Last Actual kWh's	Class A kWh	Class B kWh		•		•		%	%	
	Residential	2,263,214,648	8	2,263,214,648		12,764,069		42,764,069	2,220,450,579	1.89%	98.11%	
	General Service < 50 kW	724,761,279		724,761,279	1	11,717,613		111,717,613	613,043,666	15.41%	84.59%	
	General Service 50 to 1,499 kW	2.881,554,111	270.037.598	2,611,516,513	2.2	64.281.812		2,264,281,812	347,234,701	78.58%	12.05%	
	General Service 1,500-4999 kW	723,017,994	523,851,645	199,166,349	1	98,751,269		198,751,269	415,080	100.00%	0.06%	
	Large Use	602,082,783	602,082,783					-	0	100.00%	0.00%	
	Unmetered Scattered Load	14,549,690		14,549,690				-	14,549,690	0.00%	100.00%	
	Sentinel Lighting	47,813		47,813				-	47,813	0.00%	100.00%	
	Street Lighting	26,730,515	i	26,730,515		26,730,515			0			
				-					0			
	TOTAL	7,235,958,833	1,395,972,026	-,,,	2,6	14,245,278	0	2,617,514,763	3,195,741,529			
	%	100.00%		100.00%		45.28%	0.00%]	54.72%	45.28%	54.72%	100.00%
Step 2: Step 2a:	2021 Forecasted Commodity Pr	ices (\$/MWh)]		non-Ri	PP	Source:	Table 1: RPP	Prices and GA Mo	odifier: May 1, 201	9 to October 31, 20
Step 2b:	Forecasted Commodity Prices	Table 1: Average RPP Supply	Cost Summary*	*		non-R	PP]	RPP			
	HOEP (\$/MWh)	Load-Weighted Price for RPP Con	sumers			\$26.45	\$26.45					
	Global Adjustment (\$/MWh)	Impact of the Global Adjustment				\$114.58	\$114.58					
	Adjustments (\$/MWh)								\$1.00			
	TOTAL (\$/MWh)	Average Supply Cost for RPP (Consumers			\$141.03	\$141.03		\$142.03			
	\$/kWh					\$0.14103	\$0.14103		\$0.14203			
	Percentage shares (%)	non-RPP (GA mod/non-GA mo	d), RPP			45.28%	0.00%		54.72%			
	WEIGHTED AVERAGE PRICE (\$/kWh)	(Sum of I43, J43 and L43)		\$ 0.1416		\$0.0639	\$0,0000		\$0,0777			

Commodity Expense

olumes for the bridge and test year are loss adjusted)

Class A					2021					2022		
Customer	Revenue	Expense	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount
General Service 50 to 1,499 kW	4035	4705	272,979,363	558,698	0.02154	42.12	\$29,412,613	273,505,808	558,888	0.02645	42.12	\$30,774,871
General Service 1,500-4999 kW	4010	4705	511,522,721	1,050,314	0.02154	42.12	\$55,257,939	511,059,825	1,049,527	0.02645	42.12	\$57,724,122
Large Use			577,220,889	1,052,901	0.02154	42.12	\$56,782,346	575,810,734	1,050,767	0.02645	42.12	\$59,489,315
			1,361,722,973	2,661,913			\$141,452,898	1,360,376,367	2,659,182			\$147,988,308
							60					

01 D											
Class B										2022	
Customer		Revenue	Expense								
Class Name	UoM	USA#	USA#	Volume	rate (\$/kWh):		Amount	Volume	rate (\$/kWh):		Amount
Residential	kWh	4006	4705	2,329,086,271	0.1316		\$306,456,786	2,350,676,150	\$0.1416		\$332,809,945
General Service < 50 kW	kWh	4010	4705	723,526,640	0.1316		\$95,200,273	722,764,729	\$0.1416		\$102,329,404
General Service 50 to 1,499 kW	kWh	4035	4705	2,639,966,134	0.1316		\$347,361,774	2,645,057,358	\$0.1416		\$374,488,589
General Service 1,500-4999 kW	kWh	4010	4705	194,478,941	0.1316		\$25,589,173	194,302,949	\$0.1416		\$27,509,512
Large Use	kWh	4025	4705	0	0.1316		\$0	0	\$0.1416		\$0
Unmetered Scattered Load	kWh	4025	4705	14,061,748	0.1316		\$1,850,218	13,573,794	\$0.1416		\$1,921,785
Sentinel Lighting	kWh	4025	4705	48,589	0.1316		\$6,393	48,589	\$0.1416		\$6,879
Street Lighting	kWh	4025	4705	22,854,217	0.1316		\$3,007,115	21,942,405	\$0.1416		\$3,106,617
Drycore	kW	4025	4705	5,160,730	0.1316		\$679,039	5,160,730	\$0.1416		\$730,659
TOTAL				5,929,183,270			\$780,150,771	5,953,526,704			\$842,903,390

otal									2022	
Customer		Revenue	Expense							
Class Name	UoM	USA#	USA#	Volume	avg rate (\$/kWh):	Amount	Volume	avg rate (\$/kWh):		Γ
Residential	kWh	4006	4705	2,329,086,271	0.13158	\$306,456,786	2,350,676,150	0.1416		Г
General Service < 50 kW	kWh	4010	4705	723,526,640	0.13158	\$95,200,273	722,764,729	0.1416		Г
General Service 50 to 1,499 kW	kWh	4035	4705	2,912,945,497	0.12934	\$376,774,387	2,918,563,166	0.1389		
General Service 1,500-4999 kW	kWh	4010	4705	706,001,662	0.11451	\$80,847,112	705,362,774	0.1208		
Large Use	kWh	4025	4705	577,220,889	0.09837	\$56,782,346	575,810,734	0.1033		Г
Unmetered Scattered Load	kWh	4025	4705	14,061,748	0.13158	\$1,850,218	13,573,794	0.1416		
Sentinel Lighting	kWh	4025	4705	48,589	0.13157	\$6,393	48,589	0.1416		
Street Lighting	kWh	4025	4705	22,854,217	0.13158	\$3,007,115	21,942,405	0.1416		
Drycore	kWh	4025	4705	5,160,730	0.13158	\$679,039	5,160,730	0.1416		Г
TOTAL				7,290,906,243		\$921,603,669	7,313,903,071			

^{*}Regulated Price Plan Prices and the Global Adjustment Modifier for the Period May 1, 2019 – April 30, 2020
** Regulated Price Plan Cost Suppy Report May 1, 2019 - April 30, 2020

UPDATED - 2023 Commodity Expense

2019 Historical Actuals

						1	non-RPP		RPP	Proportions	(by Class)	
								Total		non-RPP	RPP	
Customer Class Name	Last A	Actual kWh's	Class A kWh	Class B kWh	1					%	%	
Residential	2	2,263,214,648		2,263,214,648		42,764,069		42,764,069	2,220,450,579	1.89%	98.11%	
General Service < 50 kW		724,761,279		724,761,279		111,717,613		111,717,613	613,043,666	15.41%	84.59%	
General Service 50 to 1,499 kW	2	2,881,554,111	270,037,598	2,611,516,513		2,264,281,812		2,264,281,812	347,234,701	78.58%	12.05%	
General Service 1,500-4999 kW		723,017,994	523,851,645	199,166,349		198,751,269		198,751,269	415,080	100.00%	0.06%	
Large Use		602,082,783	602,082,783	-				-	0	100.00%	0.00%	
Unmetered Scattered Load		14,549,690		14,549,690				-	14,549,690	0.00%	100.00%	
Sentinel Lighting		47,813		47,813				-	47,813	0.00%	100.00%	
Street Lighting		26,730,515		26,730,515		26,730,515		26,730,515	0			
				-					0			
	7.	7,235,958,833	1,395,972,026	5,839,986,807		2,644,245,278	0	2,644,245,278	.,, ,			
TOTAL												
%		100.00%		100.00%	J	45.28%	0.00%	l	54.72%	45.28%	54.72%	100.00
% 2021 Forecasted Commodity Pr	(S/MWh)]		non-F	PP	Source:	Table 1: RPP		54.72% odifier: May 1, 201	9 to October
2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices	(\$/MWh) Table 1: Average I	e RPP Supply C]			PP .	Source:				
2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (\$MWh)	(S/MWh) Table 1: Average I Load-Weighted Price	e RPP Supply C]	ı	non-F	RPP \$30.09	Source:	Table 1: RPP			
2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (S/MWh) Global Adjustment (S/MWh)	(\$/MWh) Table 1: Average I	e RPP Supply C]		non-F	RPP	Source:	Table 1: RPP			
2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (\$/MWh) Global Adjustment (\$/MWh) Adjustments (\$/MWh)	Table 1: Average I Load-Weighted Price Impact of the Global	e RPP Supply C ice for RPP Consu al Adjustment	umers]		non-R non-F \$30.09 \$120.94	\$30.09 \$120.94	Source:	Table 1: RPP			
2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (s/MWh) Global Adjustment (s/MWh) Adjustments (s/MWh) TOTAL (s/MWh)	(S/MWh) Table 1: Average I Load-Weighted Price	e RPP Supply C ice for RPP Consu al Adjustment	umers]		non-F	\$30.09 \$120.94 \$151.04	Source:	Table 1: RPP RPP \$1.00 \$152.04			
2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (s/MWh) Global Adjustment (s/MWh) TOTAL (s/MWh) S/MWh	(S/MWh) Table 1: Average I Load-Weighted Price Impact of the Global Average Supply Co	e RPP Supply C ice for RPP Const al Adjustment Cost for RPP Cc	umers]		non-R 330.09 \$120.94 \$151.04	\$30.09 \$120.94 \$151.04 \$0.15104	Source:	Table 1: RPP RPP \$1.00 \$152.04 \$0.15204			
2021 Forecasted Commodity Pr GA Modifier Forecasted Commodity Prices HOEP (s/MWh) Global Adjustment (s/MWh) Adjustments (s/MWh) TOTAL (s/MWh)	(S/MWh) Table 1: Average I Load-Weighted Price Impact of the Global Average Supply Co	e RPP Supply C ice for RPP Consu al Adjustment Cost for RPP Co	umers]		non-F	\$30.09 \$120.94 \$151.04	Source:	Table 1: RPP RPP \$1.00 \$152.04			

Step 3: Commodity Expense

Step 1: Allocation of Commodity

(volumes for the bridge and test year are loss adjusted)

Class A						2022					2023		
Customer		Revenue	Expense	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount
General Service 50 to 1,499 kW		4035	4705	273,505,808	558,888	0.02645	42.12	\$30,774,871	274,094,742	559,184	0.03009	42.12	\$31,799,773
General Service 1,500-4999 kW		4010	4705	511,059,825	1,049,527	0.02645	42.12	\$57,724,122	511,212,626	1,049,785	0.03009	42.12	\$59,598,260
Large Use				575,810,734	1,050,767	0.02645	42.12	\$59,489,315	574,950,368	1,049,467	0.03009	42.12	\$61,502,837
		•		1,360,376,367	2,659,182			\$147,988,308	1,360,257,736	2,658,436			\$152,900,870
Class B						2022					2023		
Customer		Revenue	Expense										
Class Name	UoM	USA#	USA#	Volume	rate (\$/kWh):			Amount	Volume	rate (\$/kWh):			Amount
Residential	kWh	4006	4705	2,350,676,150	0.1416			\$332,809,945	2,377,084,571	\$0.1516			\$360,325,176
General Service < 50 kW	kWh	4010	4705	722,764,729	0.1416			\$102,329,404	721,216,097	\$0.1516			\$109,323,968
General Service 50 to 1,499 kW	kWh	4035	4705	2,645,057,358	0.1416			\$374,488,589	2,650,752,894	\$0.1516			\$401,808,592
General Service 1,500-4999 kW	kWh	4010	4705	194,302,949	0.1416			\$27,509,512	194,361,043	\$0.1516			\$29,461,794
Large Use	kWh	4025	4705	0	0.1416			\$0	0	\$0.1516			\$0
Unmetered Scattered Load	kWh	4025	4705	13,573,794	0.1416			\$1,921,785	13,091,009	\$0.1516			\$1,984,372
Sentinel Lighting	kWh	4025	4705	48,589	0.1416			\$6,879	48,589	\$0.1516			\$7,365
Street Lighting	kWh	4025	4705	21,942,405	0.1416			\$3,106,617	21,102,959	\$0.1516			\$3,198,846
Drycore	kW	4025	4705	5,160,730	0.1416			\$730,659	5,160,730	\$0.1516			\$782,278
TOTAL				5,953,526,704				\$842,903,390	5,982,817,892				\$906,892,391
Total						2022					2023		1
Customer		Revenue											
Class Name	UoM	USA#	USA#		avg rate (\$/kWh):			Amount		avg rate (\$/kWh):			Amount
Residential	kWh	4006	4705	2,350,676,150	0.14158			\$332,809,945	2,377,084,571	0.1516	4		\$360,325,176
General Service < 50 kW	kWh	4010	4705	722,764,729	0.14158			\$102,329,404	721,216,097	0.1516			\$109,323,968
General Service 50 to 1,499 kW	kWh	4035	4705	2,918,563,166	0.13886			\$405,263,460	2,924,847,636	0.1482			\$433,608,365
General Service 1,500-4999 kW	kWh	4010	4705	705,362,774	0.12084			\$85,233,634	705,573,669	0.1262			\$89,060,054
Large Use	kWh	4025	4705	575,810,734	0.10331			\$59,489,315	574,950,368	0.1070			\$61,502,837
Unmetered Scattered Load	kWh	4025	4705	13,573,794	0.14158			\$1,921,785	13,091,009	0.1516			\$1,984,372
Sentinel Lighting	kWh	4025	4705	48,589	0.14158			\$6,879	48,589	0.1516			\$7,365
Street Lighting	kWh	4025	4705	21,942,405	0.14158			\$3,106,617	21,102,959	0.1516			\$3,198,846
Drycore	kWh	4025	4705	5,160,730	0.14158			\$730,659	5,160,730	0.1516			\$782,278
TOTAL		1	I	7,313,903,071				\$990,891,698	7,343,075,628				\$1,059,793,261

^{*}Regulated Price Plan Prices and the Global Adjustment Modifier for the Period May 1, 2019 – April 30, 2020
** Regulated Price Plan Cost Suppy Report May 1, 2019 - April 30, 2020

Allocation of Commodity

UPDATED - 2024 Commodity Expense

2019 Historical Actuals

								non-RPP		RPP	Proportions	(by Class)
									Total		non-RPP	RPP
Customer Class Nan	me	Li	ast Actual kWh's	Class A kWh	Class B kWh			•			%	%
Residential			2,263,214,648		2,263,214,648	1	42,764,069		42,764,069	2,220,450,579	1.89%	98.11%
General Service < 50	kW		724,761,279		724,761,279	Ī	111,717,613		111,717,613	613,043,666	15.41%	84.59%
General Service 50 to	1,499 kW		2,881,554,111	270,037,598	2,611,516,513		2,264,281,812		2,264,281,812	347,234,701	78.58%	12.05%
General Service 1,500	10-4999 kW		723,017,994	523,851,645	199,166,349		198,751,269		198,751,269	415,080	100.00%	0.06%
Large Use			602,082,783	602,082,783	-				-	0	100.00%	0.00%
Unmetered Scattered	i Load		14,549,690		14,549,690				-	14,549,690	0.00%	100.00%
Sentinel Lighting			47,813		47,813				-	47,813	0.00%	100.00%
Street Lighting			26,730,515		26,730,515		26,730,515			0		
					-					0		
			7,235,958,833	1,395,972,026	5,839,986,807		2,644,245,278	0	2,617,514,763	3,195,741,529		
TOTAL												
%			100.00%		100.00%		45.28%	0.00%		54.72%	45.28%	54.72%
	Commodity Pr	ices (\$/MWh)	100.00%		100.00%		45.28% non-l		Source:		45.28%	
% 2021 Forecasted		(\$/MWh) Table 1: Aver	rage RPP Supply (]			RPP	<u> </u>			
% 2021 Forecasted GA Modifier		(\$/MWh) Table 1: Aver	rage RPP Supply (]		non-l	RPP	<u> </u>	Table 1: RPP		
% 2021 Forecasted GA Modifier Forecasted Comm	nodity Prices	(\$/MWh) Table 1: Aver	rage RPP Supply (]		non-l	RPP	<u> </u>	Table 1: RPP		
2021 Forecasted GA Modifier Forecasted Comm HOEP (\$/MWh)	nodity Prices	(\$/MWh) Table 1: Aver	rage RPP Supply (]		non-l	RPP \$40.82	<u> </u>	Table 1: RPP		
2021 Forecasted GA Modifier Forecasted Comm HOEP (\$MWh) Global Adjustment (\$'	nodity Prices	(\$/MWh) Table 1: Aver Load-Weighted Impact of the G	rage RPP Supply (sumers]		non-l	RPP \$40.82	<u> </u>	Table 1: RPP		
2021 Forecasted GA Modifier Forecasted Comm HOEP (\$MWh) Global Adjustment (\$'x' Adjustments (\$'x'Adjustment (\$'x') Adjustment (\$'x') Ad	nodity Prices	(\$/MWh) Table 1: Aver Load-Weighted Impact of the G	rage RPP Supply (I Price for RPP Cons Global Adjustment	sumers]		non-1	RPP \$40.82 \$122.22	<u> </u>	Table 1: RPP		
2021 Forecasted GA Modifier Forecasted Comm HOEP (\$MWh) Global Adjustment (\$/ Adjustments (\$/AMWh) TOTAL (\$MWh)	nodity Prices	(\$/MWh) Table 1: Aver Load-Weighted Impact of the G Average Supp	rage RPP Supply (I Price for RPP Cons Slobal Adjustment bly Cost for RPP C	sumers]		non-l 840.82 \$122.22	\$40.82 \$122.22	Source:	Table 1: RPP RPP \$1.00 \$164.04		

Step 3: Commodity Expense

					2023					2024		
	Revenue	Expense	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount
	4035	4705	274,094,742	559,184	0.03009	42.12	\$31,799,773	275,331,705	560,607	0.04082	42.12	\$34,851,156
	4010	4705	511,212,626	1,049,785	0.03009	42.12	\$59,598,260	512,638,767	1,052,205	0.04082	42.12	\$65,243,562
			574,950,368	1,049,467	0.03009	42.12	\$61,502,837	575,755,453	1,050,683	0.04082	42.12	\$67,755,963
			1,360,257,736	2,658,436			\$152,900,870	1,363,725,925	2,663,495			\$167,850,681
					2023					2024		
	Revenue	Expense										
UoM	USA#	USA#	Volume	rate (\$/kWh):			Amount	Volume	rate (\$/kWh):			Amount
kWh	4006	4705	2,377,084,571	0.1516			\$360,325,176	2,412,060,092	\$0.1636			\$394,578,339
kWh	4010	4705	721,216,097	0.1516			\$109,323,968	721,358,761	\$0.1636			\$118,003,918
kWh	4035	4705	2,650,752,894	0.1516			\$401,808,592	2,662,715,489	\$0.1636			\$435,581,957
kWh	4010	4705	194,361,043	0.1516			\$29,461,794	194,903,257	\$0.1636			\$31,883,370
kWh	4025	4705	0	0.1516			\$0	0	\$0.1636			\$0
kWh	4025	4705	13,091,009	0.1516			\$1,984,372	12,607,191	\$0.1636			\$2,062,355
kWh	4025	4705	48,589	0.1516			\$7,365	48,589	\$0.1636			\$7,948
kWh	4025	4705	21,102,959	0.1516			\$3,198,846	20,265,581	\$0.1636			\$3,315,158
kW	4025	4705	5,160,730	0.1516			\$782,278	5,160,730	\$0.1636			\$844,221
			5,982,817,892				\$906,892,391	6,029,119,690				\$986,277,266
					2023					2024		
	Revenue	Expense										
UoM	USA#	USA#	Volume	avg rate (\$/kWh):			Amount	Volume	avg rate (\$/kWh):			Amount
kWh	4006	4705	2,377,084,571	0.15158			\$360,325,176	2,412,060,092	0.1636			\$394,578,339
kWh	4010	4705	721,216,097	0.15158			\$109,323,968	721,358,761	0.1636			\$118,003,918
kWh	4035	4705	2,924,847,636	0.14825			\$433,608,365	2,938,047,194	0.1601			\$470,433,113
kWh	4010	4705	705,573,669	0.12622			\$89,060,054	707,542,024	0.1373			\$97,126,932
	kWh kWh kWh kWh kWh kWh kWh kWh kWh	Revenue UoM USA # KWh 4006 KWh 4015 KWh 4025 KWh	Revenue Expense	Revenue Expense	A035	Revenue	Revenue	Revenue	Revenue	Revenue	Revenue Expense KWh Volume 4035 4705 274,094,742 599,184 0.03009 42.12 \$31,799,773 275,331,705 590,697 0.04082 4010	Revenue Expense KWh Volume 4035 4705 274,946,742 559,184 0.03009 42:12 \$51,798,773 275,533,705 560,607 0.04062 42:12 \$1,049,475 0.03009 42:12 \$51,968,800 512,638,776 1.052,205 0.04062 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.03009 42:12 \$1,049,475 0.04002 42:12

0.1373 0.1177 0.1636

0.1636 0.1636

0.1636

\$61,502,837 \$1,984,372

\$782,278 5,160,730 \$1,059,793,261 7,392,845,615

575,755,453 12,607,191

\$97,126,932 \$67,755,963 \$2,062,355

\$7,948 \$3,315,158

\$844,221 \$1,154,127,947

0.12622 0.10697 0.15158

0.15158 0.15158

0.15158

kWh kWh

kWh kWh

kWh

4705 4705 4705

4705 4705

4025 4705

574,950,368 13,091,009

5,160,730

4025 4025

4025 4025

Large Use Unmetered Scattered Load Sentinel Lighting Street Lighting

^{*}Regulated Price Plan Prices and the Global Adjustment Modifier for the Period May 1, 2019 – April 30, 2020

^{**} Regulated Price Plan Cost Suppy Report May 1, 2019 - April 30, 2020

UPDATED - 2025 Commodity Expense

2019 Historical Actuals

							non-RPP		RPP	Proportions	(by Class)
					Ī			Total		non-RPP	RPP
Customer Class Name		Last Actual kWh's	Class A kWh	Class B kWh	1 [•	•		%	%
Residential		2,263,214,648		2,263,214,648		42,764,069		42,764,069	2,220,450,579	1.89%	98.11%
General Service < 50 kW		724,761,279		724,761,279		111,717,613		111,717,613	613,043,666	15.41%	84.59%
General Service 50 to 1,499 kW		2,881,554,111	270,037,598	2,611,516,513		2,264,281,812		2,264,281,812	347,234,701	78.58%	12.05%
General Service 1,500-4999 kW		723,017,994	523,851,645	199,166,349		198,751,269		198,751,269	415,080	100.00%	0.06%
Large Use		602,082,783	602,082,783	-				-	0	100.00%	0.00%
Unmetered Scattered Load		14,549,690		14,549,690				-	14,549,690	0.00%	100.00%
Sentinel Lighting		47,813		47,813				-	47,813	0.00%	100.00%
Street Lighting		26,730,515		26,730,515		26,730,515			0		
				-					0		
			1.395.972.026	5.839.986.807		2.644.245.278	0	2,617,514,763	3,195,741,529		
TOTAL		7,235,958,833	1,355,572,026	-,,,		,, , ,, ,					
%		100.00%	1,335,372,026	100.00%		45.28%	0.00%		54.72%	45.28%	54.72%
% 2021 Forecasted Commodity		, , ,	1,350,572,026	-,,,	[,, , ,, ,		<u>. </u>			
%	Prices	, , ,	1,950,572,026	-,,,	[45.28%		Source:		45.28% Prices and GA M	
% 2021 Forecasted Commodity	(\$/MWh)	, , ,		100.00%	<u>.</u> [45.28%	RPP	<u>. </u>			
2021 Forecasted Commodity GA Modifier	(\$/MWh) Table 1: Ave	100.00%	Cost Summary*	100.00%	[45.28% non-i	RPP	<u>. </u>	Table 1: RPP		
2021 Forecasted Commodity GA Modifier Forecasted Commodity Prices	(\$/MWh) Table 1: Ave	100.00%	Cost Summary*	100.00%	[45.28% non-l	RPP	<u>. </u>	Table 1: RPP		
2021 Forecasted Commodity GA Modifier Forecasted Commodity Prices HOEP (SMWh)	(\$/MWh) Table 1: Ave	100.00%	Cost Summary*	100.00%		45.28% non-l	RPP \$40.18	<u>. </u>	Table 1: RPP		
2021 Forecasted Commodity GA Modifier Forecasted Commodity Prices HOEP (\$MWh) Global Adjustment (\$MWh)	(\$/MWh) Table 1: Ave Load-Weighte	100.00%	Cost Summary*	100.00%		45.28% non-l	RPP \$40.18	<u>. </u>	Table 1: RPP		
% 2021 Forecasted Commodity GA Modifier Forecasted Commodity Prices HOEP (SMWh) Global Adjustment (SMWh) Adjustments (SMWh)	(\$/MWh) Table 1: Ave Load-Weighte	100.00% erage RPP Supply (and Price for RPP Cons Global Adjustment	Cost Summary*	100.00%		non-l	RPP \$40.18 \$129.86	<u>. </u>	Table 1: RPP		
2021 Forecasted Commodity GA Modifier Forecasted Commodity Prices HOEP (s/MWh) Global Adjustment (s/MWh) Adjustments (s/MWh) TOTAL (s/MWh)	(\$/MWh) Table 1: Ave Load-Weighte Impact of the Average Sur	erage RPP Supply (and Price for RPP Cons Global Adjustment supply Cost for RPP C	Cost Summary*	100.00%		non-l non-l \$40.18 \$129.86	\$40.18 \$129.86 \$170.04	Source:	Table 1: RPP RPP \$1.00 \$171.04		

Step 3: Commodity Expense

Step 1: Allocation of Commodity

Class A						2024					2025		
Customer		Revenue	Expense	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount	kWh Volume	kW Volume	HOEP Rate/kWh	Avg GA/kW	Amount
General Service 50 to 1,499 kW		4035	4705	275,331,705	560,607	0.04082	42.12	\$34,851,156	275,418,219	560,021	0.04018	42.12	\$34,654,592
General Service 1,500-4999 kW		4010	4705	512,638,767	1,052,205	0.04082	42.12	\$65,243,562	511,981,873	1,051,094	0.04018	42.12	\$64,843,872
Large Use				575,755,453	1,050,683	0.04082	42.12	\$67,755,963	573,298,989	1,046,964	0.04018	42.12	\$67,133,915
	•	•	•	1,363,725,925	2,663,495			\$167,850,681	1,360,699,081	2,658,079			\$166,632,379
Class B						2024					2025		
Customer		Revenue	Expense										
Class Name	UoM	USA#	USA#	Volume	rate (\$/kWh):			Amount	Volume	rate (\$/kWh):			Amount
Residential	kWh	4006	4705	2,412,060,092	0.1636			\$394,578,339	2,432,685,436	\$0.1706			\$414,985,282
General Service < 50 kW	kWh	4010	4705	721,358,761	0.1636			\$118,003,918	719,356,291	\$0.1706			\$122,713,060
General Service 50 to 1,499 kW	kWh	4035	4705	2,662,715,489	0.1636	1		\$435,581,957	2,663,552,159	\$0.1706			\$454,368,217
General Service 1,500-4999 kW	kWh	4010	4705	194,903,257	0.1636	1		\$31,883,370	194,653,509	\$0.1706			\$33,205,420
Large Use	kWh	4025	4705	0	0.1636			\$0	0	\$0.1706			\$0
Unmetered Scattered Load	kWh	4025	4705	12,607,191	0.1636			\$2,062,355	12,124,406	\$0.1706			\$2,068,270
Sentinel Lighting	kWh	4025	4705	48,589	0.1636			\$7,948	48,589	\$0.1706			\$8,289
Street Lighting	kWh	4025	4705	20,265,581	0.1636			\$3,315,158	19,491,265	\$0.1706			\$3,324,963
Drycore	kW	4025	4705	5,160,730	0.1636			\$844,221	5,160,730	\$0.1706			\$880,355
TOTAL				6,029,119,690				\$986,277,266	6,047,072,385				\$1,031,553,856
Total						2024					2025		
Customer		Revenue	Expense										
Class Name	UoM	USA#	USA#	Volume	avg rate (\$/kWh)			Amount	Volume	avg rate (\$/kWh):			Amount
Residential	kWh	4006	4705	2,412,060,092	0.16359			\$394,578,339	2,432,685,436	0.1706			\$414,985,282
General Service < 50 kW	kWh	4010	4705	721,358,761	0.16359			\$118,003,918	719,356,291	0.1706			\$122,713,060
General Service 50 to 1,499 kW	kWh	4035	4705	2,938,047,194	0.16012			\$470,433,113	2,938,970,378	0.1664			\$489,022,809
General Service 1,500-4999 kW	kWh	4010	4705	707,542,024	0.13727			\$97,126,932	706,635,382	0.1388			\$98,049,292
Large Use	kWh	4025	4705	575,755,453	0.11768			\$67,755,963	573,298,989	0.1171			\$67,133,915
Unmetered Scattered Load	kWh	4025	4705	12,607,191	0.16359			\$2,062,355	12,124,406	0.1706			\$2,068,270
Sentinel Lighting	kWh	4025	4705	48,589	0.16358			\$7,948	48,589	0.1706			\$8,289
Street Lighting	kWh	4025	4705	20,265,581	0.16359			\$3,315,158	19,491,265	0.1706			\$3,324,963
Drycore	kWh	4025	4705	5,160,730	0.16359			\$844,221	5,160,730	0.1706			\$880,355
TOTAL				7,392,845,615				\$1,154,127,947	7,407,771,466				\$1,198,186,235

^{*}Regulated Price Plan Prices and the Global Adjustment Modifier for the Period May 1, 2019 – April 30, 2020
** Regulated Price Plan Cost Suppy Report May 1, 2019 - April 30, 2020

				2021	Cost of Po	wer							
Loss Factors	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	
LOSS FACTOR-every class but LU	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1,0338	
LOSS FACTOR-LARGE USERS	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	
SALES													
UNADJUSTED SALES (KWH)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	TOTAL
RESIDENTIAL	222,036,000	194,335,000	188,420,000	158,765,000	154,321,000	186,705,000	226,524,000	207,661,000	164,634,000	165,818,000	172,468,000	211,250,000	2,252,937,000
GENERAL SERVICE <50KW	67,428,000	61,219,000	61,603,000	54,109,000	52,456,000	54,971,000	61,520,000	58,755,000	52,104,000	53,840,000	57,201,000	64,665,000	699,871,000
DRYCORE GENERAL SERVICE 50-1000KW NONI	416,000	416,000	416,000 98.590.000	416,000 84,848,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	4,992,000
GENERAL SERVICE 50-1000KW NONI GENERAL SERVICE 50-1000KW INT	109,844,000 120,952,000	99,030,000 110,304,000	114.103.000	103.775.000	78,845,000 105.616.000	81,587,000 110.820.000	91,905,000 122.618.000	88,235,000 117,284,000	77,708,000 105.441.000	80,326,000 108,564,000	88,289,000 110,435,000	101,319,000 121,515,000	1,080,526,000 1,351,427,000
GENERAL SERVICE 30-1000KW IN 1	33.284.000	30.679.000	32.369.000	30.649.000	31.265.000	32,109,000	34.867.000	33.868.000	31.036.000	31.280.000	31.283.000	33.065.000	385.754.000
GENERAL SERVICE 1500-5000 KW	58,413,000	53,122,000	56.806.000	53.713.000	55,456,000	57,670,000	63.883.000	61.536.000	55.052.000	54,979,000	54,568,000	57,721,000	682,919,000
LARGE USER	47,874,000	42,822,000	47,722,000	46,055,000	48,373,000	48,727,000	52,777,000	51,545,000	47,265,000	47,632,000	45,925,000	47,575,000	574,292,000
STREETLIGHTING	2,840,000	2,280,000	2,008,000	1,586,000	1,101,000	975,000	1,096,000	1,347,000	1,684,000	2,178,000	2,387,000	2,625,000	22,107,000
SENTINEL	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	47,000
UNMETERED	1,174,000	1,172,000	1,059,000	1,162,000	1,125,000	1,157,000	1,143,000	1,131,000	1,116,000	1,125,000	1,106,000	1,132,000	13,602,000
TOTAL KWH-SALES	664,264,917	595,382,917	603,099,917	535,081,917	528,977,917	575,140,917	656,752,917	621,781,917	536,459,917	546,161,917	564,081,917	641,286,917	7,068,474,000
PURCHASES													
Power Purchases (kWh)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	Total
Total Load Forecast kWh	685,674,000	612,751,000	622,993,000	550,224,000	547,531,000	592,615,000	677,618,000	638,432,000	552,510,000	562,312,000	582,671,000	660,384,000	7,285,715,000
Power Purchased (kW) Power Purchases - coincident peak (kW)	JAN 1.183.000	FEB 1.167.000	MAR 1.087.000	APR 942.000	MAY 1,108,000	JUN 1,237,000	JULY 1.452.000	AUG 1.325.000	SEPT 1.128.000	OCT 928.000	NOV 1.070.000	DEC 1.140.000	Total 13,767,000
Power Purchases - contiduent peak (kw)	1,183,000	1,167,000	1,067,000	942,000	1,108,000	1,237,000	1,432,000	1,323,000	1,120,000	926,000	1,070,000	1,140,000	13,767,000
DEMAND CHARGES													
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
Coincident System Peak	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transmission Network Charge IESO Transmission Transformation Charge IESO	90.8% 68.7%	89.4%	93.3% 74.2%	99.8% 101.1%	94.5% 73.4%	88.5% 67.2%	91.8% 67.9%	92.6% 70.5%	85.5% 71.4%	93.2% 76.7%	94.7% 73.2%	96.0% 73.6%	
Transmission Transformation Charge IESO Transmission Line Charge IESO	86.3%	71.3% 90.2%	90.4%	112.6%	90.4%	88.1%	90.4%	90.0%	90.6%	94.9%	90.7%	73.6% 89.1%	
Transmission Network Charge HONI	3.7%	3.5%	3.4%	3.4%	3.8%	3.6%	3.7%	3.5%	3.3%	2.9%	2.9%	3.5%	
Transmission Transformation Charge HONI	3.7%	3.4%	3.3%	3.4%	3.7%	3.6%	3.7%	3.4%	3.4%	3.0%	2.9%	3.4%	
Transmission Line Charge HONI	0.4%	0.4%	0.4%	0.5%	0.5%	0.3%	0.4%	0.3%	0.3%	0.4%	0.4%	0.4%	
kW Breakdown by Type	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	TOTAL
Transmission Network Charge IESO	1,074,444.21	1,043,154	1,014,525	939,898	1,047,556	1,094,366	1,333,048	1,226,516	964,644	864,938	1,013,633	1,094,012	12,710,733
Transmission Transformation Charge IESO	812,766	831,800	806,303	952,002	813,158	830,796	985,592	934,102	805,181	711,481	782,790	839,046	10,105,017
Transmission Line Charge IESO	1,020,582	1,052,587	982,807	1,060,715	1,002,056	1,089,624	1,312,270	1,192,513	1,022,158	880,586	970,217	1,015,764	12,601,881
Transmission Network Charge HONI	43,508	40,363	36,678	31,691	41,717	44,594	54,399	45,949	37,657	27,357	31,357	39,365	474,635
Transmission Transformation Charge HONI Transmission Line Charge HONI	43,392 4 173	39,575 4 308	36,137 4 305	32,257 4 252	41,172 5.550	44,720 4.315	53,598 5.913	45,207 3,995	38,423 3.485	28,068 3 283	31,269 3,829	39,192 4 296	473,010 51,703
RATES	4,173	4,300	4,303	4,232	5,550	4,313	5,913	3,995	3,403	3,203	3,029	4,290	51,703
Commodity Charge Asserting 27	JAN 80 1216	FEB 60 4246	MAR \$0.1316	APR \$0.1316	MAY \$0.1316	JUN	JULY *0.1216	AUG	SEPT 60 4246	OCT	NOV	DEC	
Commodity Charge - Appendix 2Z Transmission Network Charge IESO	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	\$0.1316 \$3.92	
Transmission Transformation Charge IESO	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	\$2.33	
Transmission Line Charge IESO	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	
Transmission Network Charge HONI	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	
Transmission Transformation Charge HONI	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	
Transmission Line Charge HONI	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	
Wholesale Market Charge Smart Metering Entity Charge	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	
	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	

Hydro Ottawa Limited
EB-2019-0261
Exhibit 2
Tab 3
Schedule 1
Attachment F
UPDATED
May 5, 2020
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				2021	Cost of Po	wer							
COST OF POWER				-		-							
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$921,603,669
Transmission Network Charge IESO	\$4,211,821.29	\$4,089,163.19	\$3,976,938.65	\$3,684,398.96	\$4,106,419.73	\$4,289,914.54	\$5,225,547.37	\$4,807,941.37	\$3,781,404.68	\$3,390,557.75	\$3,973,439.69	\$4,288,527.89	\$49,826,075
Transmission Transformation Charge IESO	\$1,893,745.14	\$1,938,095.04	\$1,878,684.92	\$2,218,163.81	\$1,894,659.24	\$1,935,754.81	\$2,296,430.25	\$2,176,457.22	\$1,876,072.24	\$1,657,749.94	\$1,823,900.76	\$1,954,976.92	\$23,544,690
Transmission Line Charge IESO	\$989,964.82	\$1,021,009.83	\$953,323.05	\$1,028,893.35	\$971,994.78	\$1,056,935.36	\$1,272,901.91	\$1,156,737.21	\$991,493.62	\$854,168.30	\$941,110.86	\$985,291.20	\$12,223,824
Transmission Network Charge HONI	\$147,840.77	\$137,153.70	\$124,633.16	\$107,686.69	\$141,755.75	\$151,530.38	\$184,849.37	\$156,133.06	\$127,957.71	\$92,958.12	\$106,549.49	\$133,761.75	\$1,612,810
Transmission Transformation Charge HONI	\$87,625.77	\$79,918.40	\$72,974.83	\$65,139.47	\$83,142.89	\$90,308.18	\$108,235.44	\$91,290.95	\$77,591.86	\$56,681.39	\$63,143.65	\$79,144.36	\$955,197
Transmission Line Charge HONI	\$3,357.18	\$3,465.74	\$3,463.03	\$3,420.42	\$4,465.01	\$3,471.20	\$4,757.01	\$3,214.25	\$2,803.86	\$2,641.24	\$3,080.23	\$3,455.91	\$41,595
Wholesale Market Charge	\$2,674,128.60	\$2,389,728.90	\$2,429,672.70	\$2,145,873.60	\$2,135,370.90	\$2,311,198.50	\$2,642,710.20	\$2,489,884.80	\$2,154,789.00	\$2,193,016.80	\$2,272,416.90	\$2,575,497.60	\$28,414,289
Smart Meter Entity Charge	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$191,830.08	\$193,856.43	\$2,303,987
LV Charges	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$34,923.69	\$419,084
Total	\$87,035,543	\$86,685,594	\$86,466,750	\$86,280,636	\$86,364,868	\$86,866,172	\$88,762,491	\$87,908,718	\$86,039,172	\$85,274,833	\$86,210,701	\$87,049,742	\$1,040,945,221
Switchgear Credit	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$3,261,312
Cost of Power Summary	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$76,800,306	\$921,603,669
Transmission Network	\$4,359,662	\$4,226,317	\$4,101,572	\$3,792,086	\$4,248,175	\$4,441,445	\$5,410,397	\$4,964,074	\$3,909,362	\$3,483,516	\$4,079,989	\$4,422,290	\$51,438,885
Transmission Connection	\$2,702,917	\$2,770,713	\$2,636,670	\$3,043,841	\$2,682,486	\$2,814,694	\$3,410,549	\$3,155,924	\$2,676,186	\$2,299,465	\$2,559,460	\$2,751,092	\$33,503,995
Wholesale Market	\$2,674,129	\$2,389,729	\$2,429,673	\$2,145,874	\$2,135,371	\$2,311,199	\$2,642,710	\$2,489,885	\$2,154,789	\$2,193,017	\$2,272,417	\$2,575,498	\$28,414,289
Smart Metering Entity Charge	\$191,830	\$191,830	\$191,830	\$191,830	\$191,830	\$191,830	\$191,830	\$191,830	\$191,830	\$191,830	\$191,830	\$193,856	\$2,303,987
LV Charges	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$34,924	\$419,084
TOTAL COST of POWER EXPENSE	\$86,763,767	\$86,413,818	\$86,194,974	\$86,008,860	\$86,093,092	\$86,594,396	\$88,490,715	\$87,636,942	\$85,767,396	\$85,003,057	\$85,938,925	\$86,777,966	\$1,037,683,909

				0000)4 -4 D								
				2022 C	Cost of Pov	wer							
Loss Factors	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
LOSS FACTOR-every class but LU LOSS FACTOR-LARGE USERS	1.0338 1.0051	1.0338 1.0051	1.0338	1.0338	1.0338	1.0338 1.0051	1.0338	1.0338	1.0338	1.0338 1.0051	1.0338	1.0338 1.0051	
SALES													
UNADJUSTED SALES (KWH)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
RESIDENTIAL	223,479,000	195,655,000	189,755,000	159,997,000	155,765,000	188,927,000	229,642,000	210,372,000	166,398,000	167,228,000	173,808,000	212,795,000	2,273,821,0
GENERAL SERVICE <50KW	67,286,000	61,089,000	61,520,000	54,035,000	52,413,000	54,961,000	61,561,000	58,773,000	52,062,000	53,772,000	57,108,000	64,554,000	699,134,00
DRYCORE	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	4,992,00
GENERAL SERVICE 50-1000KW NONI	106,031,000	95,582,000	95,168,000	81,819,000	75,922,000	78,579,000	88,615,000	85,062,000	74,817,000	77,330,000	85,133,000	97,795,000	1,041,853,00
GENERAL SERVICE 50-1000KW INT	124,817,000	113,823,000	117,780,000	107,051,000	108,889,000	114,296,000	126,580,000	121,049,000	108,709,000	111,914,000	113,936,000	125,451,000	1,394,295,00
GENERAL SERVICE 1000-1500KW	33,367,000	30,756,000	32,471,000	30,748,000	31,377,000	32,229,000	35,008,000	33,997,000	31,136,000	31,375,000	31,371,000	33,158,000	386,993,00
GENERAL SERVICE 1500-5000 KW	58,074,000	52,862,000	56,674,000	53,633,000	55,445,000	57,704,000	63,974,000	61,606,000	55,063,000	54,982,000	54,559,000	57,725,000	682,301,00
LARGE USER	47,569,000	42,595,000	47,557,000	45,937,000	48,287,000	48,656,000	52,705,000	51,474,000	47,193,000	47,560,000	45,853,000	47,503,000	572,889,00
STREETLIGHTING	2,741,000	2,191,000	1,928,000	1,513,000	1,031,000	907,000	1,029,000	1,279,000	1,617,000	2,111,000	2,320,000	2,558,000	21,225,00
SENTINEL UNMETERED	3,917 1 133 000	3,917 1 132 000	3,917 1 023 000	3,917 1 122 000	3,917 1,086,000	3,917 1 117 000	3,917 1 103 000	3,917 1 092 000	3,917 1,077,000	3,917 1 086 000	3,917 1,067,000	3,917 1,092,000	47,00 13 130 00
TOTAL KWH-SALES	664,916,917	596,104,917	604,295,917	536,274,917	530,634,917	577,795,917	660,636,917	625,123,917	538,491,917	547,777,917	565,574,917	643,050,917	7,090,680,00
PURCHASES													
Power Purchases (kWh)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	Total
Total Load Forecast kWh	686,347,000	613,494,000	624,227,000	551,450,000	549,245,000	595,351,000	681,626,000	641,863,000	554,604,000	563,976,000	584,214,000	662,200,000	7,308,597,00
			MAR										
Power Purchased (kW) Power Purchases - coincident peak (kW)	JAN 1,185,000	FEB 1,170,000	MAR 1.090.000	APR 944.000	MAY 1,111,000	JUN 1,242,000	JULY 1,460,000	AUG 1.332.000	SEPT 1.132.000	930,000	1.073.000	DEC 1.143.000	Total 13.812.00
DEMAND CHARGES			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , , , , , , , , , , , , , , , ,				, , , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,-
kW Breakdown by Type	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	
Coincident System Peak	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transmission Network Charge IESO	90.8%	89.4%	93.3%	99.8%	94.5%	88.5%	91.8%	92.6%	85.5%	93.2%	94.7%	96.0%	
Transmission Transformation Charge IESO	68.7%	71.3%	74.2%	101.1%	73.4%	67.2%	67.9%	70.5%	71.4%	76.7%	73.2%	73.6%	
Transmission Line Charge IESO	86.3%	90.2%	90.4%	112.6%	90.4%	88.1%	90.4%	90.0%	90.6%	94.9%	90.7%	89.1%	
Transmission Network Charge HONI	3.7%	3.5%	3.4%	3.4%	3.8%	3.6%	3.7%	3.5%	3.3%	2.9%	2.9%	3.5%	
Transmission Transformation Charge HONI	3.7%	3.4%	3.3%	3.4%	3.7%	3.6%	3.7%	3.4%	3.4%	3.0%	2.9%	3.4%	
Transmission Line Charge HONI	0.4%	0.4%	0.4%	0.5%	0.5%	0.3%	0.4%	0.3%	0.3%	0.4%	0.4%	0.4%	
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Transmission Network Charge IESO	1.076,260.68	1,045,836	1,017,325	941,893	1.050.392	1,098,789	1.340.392	1.232.995	968.065	866.802	1,016,475	1.096.891	12,752,11
Transmission Transformation Charge IESO	814.140	833.939	808.528	954.023	815.360	834.154	991.023	939.037	808.036	713.014	784.985	841.254	10,137,49
Transmission Line Charge IESO	1.022.308	1.055.293	985.520	1.062.967	1.004.770	1.094.028	1.319.500	1.198.813	1.025.783	882,484	972.938	1.018.437	12,642,84
Transmission Network Charge HONI	43.582	40.467	36,780	31.758	41,830	44.774	54.699	46.191	37.790	27,416	31.444	39.468	476,20
Transmission Transformation Charge HONI	43,465	39,677	36,237	32,325	41,284	44,901	53,893	45,446	38,559	28,129	31,356	39,295	474,56
Transmission Line Charge HONI	4,180	4,319	4,316	4,261	5,565	4,332	5,946	4,016	3,498	3,290	3,839	4,307	51,87
RATES													
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	
Commodity Charge	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	\$0.1416	
Transmission Network Charge IESO	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	
Transmission Transformation Charge IESO	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	
Transmission Line Charge IESO	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	
Transmission Network Charge HONI	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	\$3.45	
Transmission Transformation Charge HONI	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	
					\$0.82	\$0.82	\$0.82	\$0.82	\$0.82	\$0.82	\$0.82	\$0.82	
Transmission Line Charge HONI	\$0.82	\$0.82	\$0.82	\$0.82									
Transmission Line Charge HONI Wholesale Market Charge Smart Metering Entity Charge	\$0.82 \$0.00390 \$0.570	\$0.82 \$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	\$0.00390 \$0.570	

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				2022 C	ost of Pov	ver							
Cost of Power													
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$990,891,69
Transmission Network Charge IESO	\$4,305,043	\$4,183,342	\$4,069,301	\$3,767,573	\$4,201,570	\$4,395,158	\$5,361,570	\$4,931,981	\$3,872,259	\$3,467,209	\$4,065,898	\$4,387,565	\$51,008,46
Transmission Transformation Charge IESO	\$1,937,654	\$1,984,774	\$1,924,296	\$2,270,574	\$1,940,557	\$1,985,287	\$2,358,634	\$2,234,907	\$1,923,127	\$1,696,973	\$1,868,264	\$2,002,184	\$24,127,23
Transmission Line Charge IESO	\$1,012,085	\$1,044,740	\$975,665	\$1,052,337	\$994,722	\$1,083,088	\$1,306,305	\$1,186,825	\$1,015,525	\$873,659	\$963,208	\$1,008,253	\$12,516,41
Transmission Network Charge HONI	\$150,387	\$139,639	\$126,915	\$109,589	\$144,344	\$154,502	\$188,750	\$159,392	\$130,403	\$94,603	\$108,505	\$136,194	\$1,643,22
Transmission Transformation Charge HONI	\$89,134	\$81,366	\$74,310	\$66,290	\$84,660	\$92,079	\$110,519	\$93,196	\$79,074	\$57,684	\$64,302	\$80,583	\$973,19
Transmission Line Charge HONI	\$3,415	\$3,529	\$3,527	\$3,481	\$4,547	\$3,539	\$4,858	\$3,281	\$2,858	\$2,688	\$3,137	\$3,519	\$42,37
Wholesale Market Charge	\$2,676,753	\$2,392,627	\$2,434,485	\$2,150,655	\$2,142,056	\$2,321,869	\$2,658,341	\$2,503,266	\$2,162,956	\$2,199,506	\$2,278,435	\$2,582,580	\$28,503,52
Smart Meter Entity	\$193,856	\$193,856	\$193,856	\$193,856	\$193,856	\$193,856	\$193,856	\$193,856	\$193,856	\$193,856	\$193,856	\$195,736	\$2,328,15
LV Charges	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$425,58
Total	\$92,978,101	\$92,633,646	\$92,412,129	\$92,224,129	\$92,316,085	\$92,839,152	\$94,792,606	\$93,916,478	\$91,989,831	\$91,195,953	\$92,155,379	\$93,006,387	\$1,112,459,87
Switchgear Credit	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$3,261,31
Cost of Power Summary	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$82,574,308	\$82,574,308	\$82.574.308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82,574,308	\$82.574.308	\$990,891,69
Transmission Network	\$4,455,430	\$4,322,981	\$4,196,216	\$3.877.162	\$4,345,914	\$4,549,660	\$5.550.320	\$5.091,374	\$4.002.662	\$3,561,812	\$4,174,403	\$4,523,759	\$52,651,69
Transmission Connection	\$2,770,512	\$2.842.633	\$2,706,022	\$3,120,906	\$2,752,710	\$2.892.217	\$3,508,539	\$3,246,433	\$2,748,807	\$2,359,228	\$2,627,135	\$2,822,763	\$34,397,90
Wholesale Market	\$2,676,753	\$2,392,627	\$2,434,485	\$2,150,655	\$2,142,056	\$2,321,869	\$2,658,341	\$2,503,266	\$2,162,956	\$2,199,506	\$2,278,435	\$2,582,580	\$28,503,52
Smart Metering Entity Charge	\$193.856	\$193.856	\$193,856	\$193.856	\$193.856	\$193.856	\$193.856	\$193,856	\$193,856	\$193,856	\$193,856	\$195,736	\$2,328,15
LV Charges	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$35.465	\$35,465	\$35,465	\$35,465	\$35,465	\$35,465	\$425,58
	\$92,706,325	\$92,361,870	\$92,140,353	\$91,952,353	\$92,044,309	\$92,567,376	\$94,520,830	\$93,644,702	\$91,718,055	\$90,924,177	\$91.883.603	\$92,734,611	\$1,109,198,56

				2023 C	ost of Pov	ver							
Loss Factors	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ост	NOV	DEC	
LOSS FACTOR-every class but LU	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	
LOSS FACTOR-LARGE USERS	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	
	1												
SALES	l												
UNADJUSTED SALES (KWH)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
RESIDENTIAL	225,646,000	197,583,000	191,720,000	161,805,000	157,667,000	191,266,000	232,553,000	213,034,000	168,457,000	169,137,000	175,658,000	214,840,000	2,299,366,000
GENERAL SERVICE <50KW DRYCORE	67,162,000 416,000	60,936,000 416,000	61,389,000 416,000	53,893,000 416,000	52,288,000 416,000	54,854,000 416,000	61,493,000 416,000	58,687,000 416,000	51,933,000 416,000	53,632,000 416,000	56,957,000 416,000	64,412,000 416,000	697,636,000 4,992,000
GENERAL SERVICE 50-1000KW NONI	102,399,000	92,239,000	91,801,000	78,812,000	72,994,000	75,543,000	85,278,000	81.847.000	71,901,000	74.311.000	81.948.000	94,242,000	1,003,315,000
GENERAL SERVICE 50-1000KW INT	128,914,000	117,480,000	121,549,000	110,378,000	112,184,000	117,769,000	130,526,000	124,797,000	111,970,000	115,256,000	117,424,000	129,379,000	1,437,626,000
GENERAL SERVICE 1000-1500KW	33,485,000	30.849.000	32,581,000	30,847,000	31,484,000	32.341.000	35.141.000	34,121,000	31,236,000	31.473.000	31,463,000	33,258,000	388.279.000
GENERAL SERVICE 1500-5000 KW	58.099.000	52.840.000	56.689.000	53.630.000	55.462.000	57.736.000	64.055.000	61,666,000	55.069.000	54.983.000	54.546.000	57.730.000	682,505,000
LARGE USER	47.497.000	42.524.000	47.485.000	45.866.000	48.215.000	48.584.000	52.634.000	51,403,000	47.122.000	47.489.000	45.782.000	47.432.000	572,033,000
STREETLIGHTING	2,673,000	2,124,000	1,860,000	1,445,000	964,000	840,000	961,000	1,212,000	1,549,000	2,043,000	2,252,000	2,490,000	20,413,000
SENTINEL	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	3,917	47,000
UNMETERED	1,093,000	1,092,000	987,000	1,082,000	1,047,000	1,078,000	1,064,000	1,053,000	1,038,000	1,047,000	1,029,000	1,053,000	12,663,000
TOTAL KWH-SALES	667,387,917	598,086,917	606,480,917	538,177,917	532,724,917	580,430,917	664,124,917	628,239,917	540,694,917	549,790,917	567,478,917	645,255,917	7,118,875,000
PURCHASES													
Power Purchases (kWh)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	Total
Total Load Forecast kWh	688,899,000	615,531,000	626,486,000	553,408,000	551,409,000	598,067,000	685,223,000	645,062,000	556,872,000	566,048,000	586,180,000	664,470,000	7,337,655,000
Power Purchased (kW)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	Total
Power Purchases - coincident peak (kW)	1,189,000	1,174,000	1,093,000	948,000	1,115,000	1,247,000	1,468,000	1,338,000	1,136,000	934,000	1,076,000	1,147,000	13,865,000
DEMAND CHARGES]												
kW Breakdown by Type	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	
Coincident System Peak	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transmission Network Charge IESO	90.8%	89.4%	93.3%	99.8%	94.5%	88.5%	91.8%	92.6%	85.5%	93.2%	94.7%	96.0%	
Transmission Transformation Charge IESO	68.7%	71.3%	74.2%	101.1%	73.4%	67.2%	67.9%	70.5%	71.4%	76.7%	73.2%	73.6%	
Transmission Line Charge IESO	86.3%	90.2%	90.4%	112.6%	90.4%	88.1%	90.4%	90.0%	90.6%	94.9%	90.7%	89.1%	
Transmission Network Charge HONI	3.7%	3.5%	3.4%	3.4%	3.8%	3.6%	3.7%	3.5%	3.3%	2.9%	2.9%	3.5%	
Transmission Transformation Charge HONI Transmission Line Charge HONI	3.7% 0.4%	3.4% 0.4%	3.3% 0.4%	3.4% 0.5%	3.7% 0.5%	3.6% 0.3%	3.7% 0.4%	3.4% 0.3%	3.4% 0.3%	3.0% 0.4%	2.9% 0.4%	3.4% 0.4%	
I ransmission Line Charge HONI	0.4%	0.4%	0.4%	0.5%	0.5%	0.3%	0.4%	0.3%	0.3%	0.4%	0.4%	0.4%	
Township In Makes of Change 1700	JAN 1.079.893.63	FEB 1.049.411	MAR 1,020,125	APR 945.884	MAY 1.054,174	JUN 1,103,213	JULY 1,347,737	AUG 1.238.549	SEPT 971.485	OCT 870.530	NOV 1,019,316	DEC 1,100,730	TOTAL 12.801.050
Transmission Network Charge IESO Transmission Transformation Charge IESO	816.888	1,049,411	810.753	945,884 958.065	818.296	1,103,213 837.512	1,347,737	943.267	971,485 810.892	870,530 716.081	787.180	844.198	12,801,050
Transmission Transformation Charge IESO Transmission Line Charge IESO	1.025.759	1,058,901	988.232	1,067,471	1.008.387	1.098.433	1,326,730	1.204.213	1.029.408	886.279	975.658	1,022,001	12,691,472
Transmission Network Charge HONI	43.729	40.605	36.881	31,893	41,981	44.954	54.999	46.399	37.924	27.534	31.532	39.607	478,038
Transmission Transformation Charge HONI	43.612	39.813	36.336	32.462	41,432	45.082	54.188	45,651	38.696	28.250	31,444	39.433	476,399
Transmission Line Charge HONI	4,194	4,334	4,328	4,279	5,585	4,350	5,978	4,035	3,510	3,304	3,850	4,322	52,069
RATES	<u> </u>												
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	
Commodity Charge	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	\$0.0213	
Transmission Network Charge IESO	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	\$4.08	
Transmission Transformation Charge IESO	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	
Transmission Line Charge IESO	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	
Transmission Network Charge HONI	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	\$3.50	
Transmission Transformation Charge HONI	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	
Transmission Line Charge HONI	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	
Wholesale Market Charge Smart Metering Entity Charge	\$0.00390 \$0.570												
ornant wetering Entity Griange	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	\$0.570	фU.5/U	\$0.570	\$0.570	\$0.570	

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				2023 C	ost of Pov	wer							
Cost of Power													
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$1,059,793,26
Transmission Network Charge IESO	\$4,405,966	\$4,281,597	\$4,162,110	\$3,859,208	\$4,301,031	\$4,501,109	\$5,498,767	\$5,053,282	\$3,963,661	\$3,551,764	\$4,158,811	\$4,490,978	\$52,228,28
Transmission Transformation Charge IESO	\$1,985,039	\$2,033,399	\$1,970,130	\$2,328,099	\$1,988,459	\$2,035,155	\$2,421,381	\$2,292,138	\$1,970,467	\$1,740,076	\$1,912,846	\$2,051,401	\$24,728,58
Transmission Line Charge IESO	\$1,036,016	\$1,069,490	\$998,114	\$1,078,146	\$1,018,471	\$1,109,417	\$1,339,998	\$1,216,255	\$1,039,702	\$895,142	\$985,414	\$1,032,221	\$12,818,387
Transmission Network Charge HONI	\$153,235	\$142,289	\$129,238	\$111,760	\$147,110	\$157,530	\$192,727	\$162,593	\$132,893	\$96,483	\$110,496	\$138,789	\$1,675,141
Transmission Transformation Charge HONI	\$90,822	\$82,910	\$75,670	\$67,603	\$86,283	\$93,883	\$112,847	\$95,067	\$80,584	\$58,830	\$65,482	\$82,119	\$992,100
Transmission Line Charge HONI	\$3,480	\$3,596	\$3,591	\$3,550	\$4,634	\$3,609	\$4,960	\$3,347	\$2,912	\$2,742	\$3,195	\$3,586	\$43,202
Wholesale Market Charge	\$2,686,706	\$2,400,571	\$2,443,295	\$2,158,291	\$2,150,495	\$2,332,461	\$2,672,370	\$2,515,742	\$2,171,801	\$2,207,587	\$2,286,102	\$2,591,433	\$28,616,855
Smart Meter Entity	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$197,522	\$2,350,621
LV Charges	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$432,177
Total	\$98,909,120	\$98,561,708	\$98,330,006	\$98,154,512	\$98,244,338	\$98,781,019	\$100,790,906	\$99,886,279	\$97,909,875	\$97,100,481	\$98,070,202	\$98,940,168	\$1,183,678,614
Switchgear Credit	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$3,261,312
Cost of Power Summary	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$88,316,105	\$1,059,793,261
Transmission Network	\$4,559,201	\$4,423,886	\$4,291,348	\$3,970,968	\$4,448,140	\$4,658,638	\$5,691,494	\$5,215,874	\$4,096,554	\$3,648,248	\$4,269,307	\$4,629,767	\$53,903,424
Transmission Connection	\$2,843,581	\$2,917,619	\$2,775,730	\$3,205,621	\$2,826,070	\$2,970,288	\$3,607,410	\$3,335,031	\$2,821,889	\$2,425,014	\$2,695,161	\$2,897,551	\$35,320,965
Wholesale Market	\$2,686,706	\$2,400,571	\$2,443,295	\$2,158,291	\$2,150,495	\$2,332,461	\$2,672,370	\$2,515,742	\$2,171,801	\$2,207,587	\$2,286,102	\$2,591,433	\$28,616,855
Smart Metering Entity Charge	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$195,736	\$197,522	\$2,350,621
LV Charges	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$36,015	\$432,177
TOTAL COST of POWER EXPENSE	\$98,637,344	\$98,289,932	\$98,058,230	\$97,882,736	\$97,972,562	\$98,509,243	\$100,519,130	\$99,614,503	\$97,638,099	\$96,828,705	\$97,798,426	\$98,668,392	\$1,180,417,302

				2024 (Cost of Pov	ver							
Loss Factors	JAN	FEB	MAR	APR	MAY	JIIN	JULY	AUG	SEPT	ост	NOV	DEC	
LOSS FACTOR-every class but LU	1.0338	1.0338	1.0338	1,0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	
LOSS FACTOR-LARGE USERS	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	
SALES													
UNADJUSTED SALES (KWH)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
RESIDENTIAL	227,773,000	206,833,000	193,639,000	163,582,000	159,603,000	193,804,000	235,864,000	216,004,000	170,614,000	171,046,000	177,514,000	216,922,000	2,333,198,000
GENERAL SERVICE <50KW	67,017,000	62,393,000	61,247,000	53,746,000	52,160,000	54,749,000	61,433,000	58,611,000	51,811,000	53,502,000	56,821,000	64,284,000	697,774,000
DRYCORE	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	4,992,000
GENERAL SERVICE 50-1000KW NONI	98,708,000	91,320,000	88,396,000	75,779,000	70,045,000	72,490,000	81,927,000	78,623,000	68,980,000	71,291,000	78,769,000	90,696,000	967,024,000
GENERAL SERVICE 50-1000KW INT	132,968,000	124,466,000	125,298,000	113,691,000	115,475,000	121,252,000	134,502,000	128,578,000	115,255,000	118,627,000	120,948,000	133,351,000	1,484,411,000
GENERAL SERVICE 1000-1500KW	33,600,000	31,762,000	32,696,000	30,955,000	31,603,000	32,468,000	35,292,000	34,265,000	31,357,000	31,593,000	31,579,000	33,383,000	390,553,000
GENERAL SERVICE 1500-5000 KW	58,102,000	54,463,000	56,692,000	53,620,000	55,477,000	57,772,000	64,145,000	61,740,000	55,089,000	55,000,000	54,554,000	57,755,000	684,409,000
LARGE USER STREETLIGHTING	47,426,000 2,606,000	44,108,000 2,056,000	47,414,000	45,794,000 1,377,000	48,144,000 896,000	48,513,000 772,000	52,563,000	51,331,000	47,051,000	47,418,000	45,711,000	47,361,000 2,423,000	572,834,000 19,603,000
SENTINEL	2,606,000	2,056,000	1,793,000 3,917	1,377,000	3,917	3.917	894,000 3.917	1,144,000 3.917	1,482,000 3,917	1,976,000 3,917	2,184,000 3,917	3,917	19,603,000
UNMETERED	1.054.000	1.052.000	950.000	1.043.000	1.009.000	1.038.000	1.025.000	1.014.000	999.000	1.008.000	990.000	1.013.000	12,195,000
TOTAL KWH-SALES	669.673.917	618.872.917	608.544.917	540.006.917	534.831.917	583.277.917	668.064.917	631,729,917	543.057.917	551.880.917	569.489.917	647,607,917	7.167.040.000
PURCHASES			, , , ,		, , , ,	, ,		. , , , .	, , , ,		, ,	, , , , ,	
Power Purchases (kWh)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ост	NOV	DEC	Total
Total Load Forecast kWh	691,257,000	636.926.000	628.619.000	555,289,000	553.588.000	601.001.000	689,289,000	648.646.000	559.306.000	568.199.000	588.257.000	666.893.000	7,387,270,000
						,							.,==:,=:=
Power Purchased (kW)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	Total
Power Purchases - coincident peak (kW)	1,196,000	1,145,000	1,099,000	954,000	1,121,000	1,256,000	1,480,000	1,348,000	1,143,000	940,000	1,082,000	1,153,000	13,917,000
DEMAND CHARGES													
kW Breakdown by Type	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
Coincident System Peak	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transmission Network Charge IESO	90.8%	89.4%	93.3%	99.8%	94.5%	88.5%	91.8%	92.6%	85.5%	93.2%	94.7%	96.0%	
Transmission Transformation Charge IESO	68.7%	71.3%	74.2%	101.1%	73.4%	67.2%	67.9%	70.5%	71.4%	76.7%	73.2%	73.6%	
Transmission Line Charge IESO	86.3%	90.2%	90.4%	112.6%	90.4%	88.1%	90.4%	90.0%	90.6%	94.9%	90.7%	89.1%	
Transmission Network Charge HONI	3.7%	3.5%	3.4%	3.4%	3.8%	3.6%	3.7%	3.5%	3.3%	2.9%	2.9%	3.5%	
Transmission Transformation Charge HONI	3.7%	3.4%	3.3%	3.4%	3.7%	3.6%	3.7%	3.4%	3.4%	3.0%	2.9%	3.4%	
Transmission Line Charge HONI	0.4%	0.4%	0.4%	0.5%	0.5%	0.3%	0.4%	0.3%	0.3%	0.4%	0.4%	0.4%	
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Transmission Network Charge IESO	1,086,251.29	1,023,489	1,025,725	951,871	1,059,847	1,111,175	1,358,754	1,247,806	977,472	876,123	1,025,000	1,106,488	12,850,001
Transmission Transformation Charge IESO	821.698		815.204	964.129	822.699	843.557	1.004.598	950.316	815,888	720,681	791,569	848,614	10,215,073
	821,698	816,120										1.027.347	12,739,557
Transmission Line Charge IESO	1,031,797	816,120 1,032,744	993,657	1,074,227	1,013,813	1,106,360	1,337,575	1,213,213	1,035,751	891,973	981,098		
							1,337,575 55,448	1,213,213 46,746	1,035,751 38,158	891,973 27,710	981,098 31,708	39,814	479,837
Transmission Line Charge IESO	1,031,797	1,032,744	993,657	1,074,227	1,013,813	1,106,360							
Transmission Line Charge IESO Transmission Network Charge HONI	1,031,797 43,986	1,032,744 39,602	993,657 37,083	1,074,227 32,095	1,013,813 42,207	1,106,360 45,279	55,448	46,746	38,158	27,710	31,708	39,814	479,837
Transmission Line Charge IESO Transmission Network Charge HONI Transmission Transformation Charge HONI	1,031,797 43,986 43,869	1,032,744 39,602 38,829	993,657 37,083 36,536	1,074,227 32,095 32,668	1,013,813 42,207 41,655	1,106,360 45,279 45,407	55,448 54,631	46,746 45,992	38,158 38,934	27,710 28,431	31,708 31,619	39,814 39,639	479,837 478,211
Transmission Line Charge IESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI	1,031,797 43,986 43,869	1,032,744 39,602 38,829	993,657 37,083 36,536	1,074,227 32,095 32,668	1,013,813 42,207 41,655	1,106,360 45,279 45,407	55,448 54,631	46,746 45,992	38,158 38,934	27,710 28,431	31,708 31,619	39,814 39,639	479,837 478,211
Transmission Line Charge IESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI	1,031,797 43,986 43,869 4,219	1,032,744 39,602 38,829 4,227	993,657 37,083 36,536 4,352	1,074,227 32,095 32,668 4,306	1,013,813 42,207 41,655 5,615	1,106,360 45,279 45,407 4,381	55,448 54,631 6,027	46,746 45,992 4,065	38,158 38,934 3,532	27,710 28,431 3,326	31,708 31,619 3,872	39,814 39,639 4,345	479,837 478,211
Transmission Line Charge ESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI Transmission Line Charge HONI RATES Commodity Charge Transmission Network Charge IESO	1,031,797 43,986 43,869 4,219 JAN \$0,1636 \$4,16	1,032,744 39,602 38,829 4,227 FEB \$0.1636 \$4.16	993,657 37,083 36,536 4,352 MAR \$0.1636 \$4.16	1,074,227 32,095 32,668 4,306 APR \$0.1636 \$4.16	1,013,813 42,207 41,655 5,615 MAY \$0.1636 \$4.16	1,106,360 45,279 45,407 4,381 JUN \$0.1636 \$4.16	55,448 54,631 6,027 JULY \$0.1636 \$4.16	46,746 45,992 4,065 AUG \$0.1636 \$4.16	38,158 38,934 3,532 SEPT \$0.1636 \$4.16	27,710 28,431 3,326 OCT \$0.1636 \$4.16	31,708 31,619 3,872 NOV \$0.1636 \$4.16	39,814 39,639 4,345 DEC \$0.1636 \$4.16	479,837 478,211
Transmission Line Charge IESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI Transmission Line Charge HONI RATES Commodity Charge Transmission Network Charge IESO Transmission Transformation Charge IESO	1,031,797 43,986 43,869 4,219 JAN \$0,1636 \$4,16 \$2,48	1,032,744 39,602 38,829 4,227 FEB \$0.1636 \$4.16 \$2.48	993,657 37,083 36,536 4,352 MAR \$0.1636 \$4.16 \$2.48	1,074,227 32,095 32,668 4,306 APR \$0.1636 \$4.16 \$2.48	1,013,813 42,207 41,655 5,615 MAY \$0,1636 \$4,16 \$2,48	1,106,360 45,279 45,407 4,381 JUN \$0.1636 \$4.16 \$2.48	55,448 54,631 6,027 JULY \$0.1636 \$4.16 \$2.48	46,746 45,992 4,065 AUG \$0.1636 \$4.16 \$2.48	38,158 38,934 3,532 SEPT \$0.1636 \$4.16 \$2.48	27,710 28,431 3,326 OCT \$0.1636 \$4.16 \$2.48	31,708 31,619 3,872 NOV \$0.1636 \$4.16 \$2.48	39,814 39,639 4,345 DEC \$0.1636 \$4.16 \$2.48	479,837 478,211
Transmission Line Charge ESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI Transmission Line Charge HONI RATES Commodity Charge Transmission Network Charge IESO Transmission Transformation Charge IESO Transmission Transformation Charge IESO Transmission Line Charge IESO	1,031,797 43,986 43,889 4,219 JAN \$0,1636 \$4.16 \$2.48 \$1.03	1,032,744 39,602 38,829 4,227 FEB \$0.1636 \$4.16 \$2.48 \$1.03	993,657 37,083 36,536 4,352 MAR \$0.1636 \$4.16 \$2.48 \$1.03	1,074,227 32,095 32,668 4,306 APR \$0.1636 \$4.16 \$2.48 \$1.03	1,013,813 42,207 41,655 5,615 MAY \$0.1636 \$4.16 \$2.48 \$1.03	1,106,360 45,279 45,407 4,381 JUN \$0,1636 \$4.16 \$2.48 \$1.03	55,448 54,631 6,027 JULY \$0.1636 \$4.16 \$2.48 \$1.03	46,746 45,992 4,065 AUG \$0.1636 \$4.16 \$2.48 \$1.03	38,158 38,934 3,532 SEPT \$0.1636 \$4.16 \$2.48 \$1.03	27,710 28,431 3,326 OCT \$0.1636 \$4.16 \$2.48 \$1.03	31,708 31,619 3,872 NOV \$0.1636 \$4.16 \$2.48 \$1.03	39,814 39,639 4,345 DEC \$0.1636 \$4.16 \$2.48 \$1.03	479,837 478,211
Transmission Line Charge IESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI RATES Commodity Charge Transmission Network Charge IESO Transmission Network Charge IESO Transmission Line Charge IESO	1,031,797 43,986 43,989 4,219 JAN \$0,1636 \$4,16 \$2,248 \$1,03 \$3,56	1,032,744 39,602 38,829 4,227 FEB \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	993,657 37,083 36,536 4,352 MAR \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	1,074,227 32,095 32,668 4,306 APR \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	1,013,813 42,207 41,655 5,615 MAY \$0,1636 \$4,16 \$2,48 \$1,03 \$3,56	1,106,360 45,279 45,407 4,381 JUN \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	55,448 54,631 6,027 \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	46,746 45,992 4,065 \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	38,158 38,934 3,532 SEPT \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	27,710 28,431 3,326 OCT \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	31,708 31,619 3,872 NOV \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	39,814 39,639 4,345 DEC \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56	479,837 478,211
Transmission Line Charge ESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI Transmission Line Charge HONI RATES Commodity Charge Transmission Network Charge IESO Transmission Transformation Charge IESO Transmission Transformation Charge HONI Transmission Network Charge HONI Transmission Network Charge HONI Transmission Network Charge HONI Transmission Network Charge HONI Transmission Transformation Charge HONI	1,031,797 43,986 43,989 4,219 JAN \$0,1636 \$4,16 \$2,48 \$1,03 \$3,56 \$2,211	1,032,744 39,602 38,829 4,227 FEB \$0.1636 \$4.16 \$2.248 \$1.03 \$3.56 \$2.21	993,657 37,083 36,536 4,352 MAR \$0.1636 \$4.16 \$2.248 \$1.03 \$3.56 \$2.211	1,074,227 32,095 32,668 4,306 \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	1,013,813 42,207 41,655 5,615 MAY \$0.1636 \$4.16 \$2.248 \$1.03 \$3.56 \$2.11	1,106,360 45,279 45,407 4,381 JUN \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	55,448 54,631 6,027 JULY \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	46,746 45,992 4,065 \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	38,158 38,934 3,532 SEPT \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	27,710 28,431 3,326 OCT \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	31,708 31,619 3,872 NOV \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	39,814 39,639 4,345 DEC \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	479,837 478,211
Transmission Line Charge LESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI RATES Commodity Charge Transmission Network Charge LESO Transmission Transformation Charge LESO Transmission Transformation Charge LESO Transmission Transformation Charge HONI	JAN \$0.1636 \$4.1996 \$4.219 JAN \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.04	1,032,744 39,602 38,829 4,227 FEB \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	993,657 37,083 36,536 4,352 MAR \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	1,074,227 32,095 32,668 4,306 4,306 \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	1,013,813 42,207 41,655 5,615 MAY \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	1,106,360 45,279 45,407 4,381 JUN \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	55,448 54,631 6,027 \$0,1636 \$4,16 \$2,48 \$1,03 \$3,56 \$2,11 \$0,84	46,746 45,992 4,065 AUG \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	38,158 38,934 3,532 SEPT \$0,1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	27,710 28,431 3,326 OCT \$0,1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	31,708 31,619 3,872 80,1636 \$4,16 \$2,48 \$1,03 \$3,56 \$2,11 \$0,84	39,814 39,639 4,345 DEC \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11 \$0.84	479,837 478,211
Transmission Line Charge ESO Transmission Network Charge HONI Transmission Transformation Charge HONI Transmission Line Charge HONI Transmission Line Charge HONI RATES Commodity Charge Transmission Network Charge IESO Transmission Transformation Charge IESO Transmission Transformation Charge HONI Transmission Network Charge HONI Transmission Network Charge HONI Transmission Network Charge HONI Transmission Network Charge HONI Transmission Transformation Charge HONI	1,031,797 43,986 43,989 4,219 JAN \$0,1636 \$4,16 \$2,48 \$1,03 \$3,56 \$2,2,11	1,032,744 39,602 38,829 4,227 FEB \$0.1636 \$4.16 \$2.248 \$1.03 \$3.56 \$2.21	993,657 37,083 36,536 4,352 MAR \$0.1636 \$4.16 \$2.248 \$1.03 \$3.56 \$2.211	1,074,227 32,095 32,668 4,306 \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	1,013,813 42,207 41,655 5,615 MAY \$0.1636 \$4.16 \$2.248 \$1.03 \$3.56 \$2.11	1,106,360 45,279 45,407 4,381 JUN \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	55,448 54,631 6,027 JULY \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	46,746 45,992 4,065 \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	38,158 38,934 3,532 SEPT \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	27,710 28,431 3,326 OCT \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	31,708 31,619 3,872 NOV \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	39,814 39,639 4,345 DEC \$0.1636 \$4.16 \$2.48 \$1.03 \$3.56 \$2.11	479,837 478,211

Hydro Ottawa Limited
EB-2019-0261
Exhibit 2
Tab 3
Schedule 1
Attachment F
UPDATED
May 5, 2020
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				2024	Cost of Pov	ver							
Cost of Power													
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ост	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$1,154,127,94
Transmission Network Charge IESO	\$4,518,805	\$4,257,713	\$4,267,016	\$3,959,783	\$4,408,963	\$4,622,489	\$5,652,416	\$5,190,873	\$4,066,283	\$3,644,671	\$4,264,002	\$4,602,989	\$53,456,00
Fransmission Transformation Charge IESO	\$2,037,810	\$2,023,976	\$2,021,705	\$2,391,040	\$2,040,294	\$2,092,021	\$2,491,404	\$2,356,785	\$2,023,403	\$1,787,288	\$1,963,091	\$2,104,563	\$25,333,3
Fransmission Line Charge IESO	\$1,062,751	\$1,063,727	\$1,023,467	\$1,106,454	\$1,044,228	\$1,139,551	\$1,377,703	\$1,249,609	\$1,066,823	\$918,732	\$1,010,531	\$1,058,168	\$13,121,7
Transmission Network Charge HONI	\$156,525	\$140,924	\$131,961	\$114,210	\$150,193	\$161,125	\$197,313	\$166,346	\$135,784	\$98,608	\$112,834	\$141,677	\$1,707,50
Transmission Transformation Charge HONI	\$92,774	\$82,116	\$77,266	\$69,086	\$88,092	\$96,027	\$115,534	\$97,263	\$82,338	\$60,127	\$66,868	\$83,828	\$1,011,32
Transmission Line Charge HONI	\$3,555	\$3,561	\$3,667	\$3,628	\$4,731	\$3,691	\$5,078	\$3,425	\$2,976	\$2,802	\$3,262	\$3,661	\$44,03
Wholesale Market Charge	\$2,695,902	\$2,484,011	\$2,451,614	\$2,165,627	\$2,158,993	\$2,343,904	\$2,688,227	\$2,529,719	\$2,181,293	\$2,215,976	\$2,294,202	\$2,600,883	\$28,810,35
Smart Meter Entity	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$199,244	\$2,371,98
LV Charges	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$36,573	\$438,87
Total	\$106,979,546	\$106,467,452	\$106,388,120	\$106,221,251	\$106,306,918	\$106,870,232	\$108,939,100	\$108,005,444	\$105,970,323	\$105,139,627	\$106,126,214	\$107,008,914	\$1,280,423,143
Switchgear Credit	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$3,261,31
Cost of Power Summary	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ост	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$96,177,329	\$96,177,329	\$96.177.329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$96,177,329	\$1,154,127,94
Transmission Network	\$4.675.331	\$4,398,637	\$4,398,977	\$4,073,993	\$4,559,156	\$4,783,614	\$5.849.730	\$5,357,219	\$4,202,066	\$3,743,278	\$4,376,835	\$4,744,666	\$55,163,50
Transmission Connection	\$2,925,114	\$2,901,605	\$2,854,329	\$3,298,432	\$2,905,569	\$3,059,515	\$3,717,943	\$3,435,306	\$2,903,764	\$2,497,173	\$2,771,977	\$2,978,444	\$36,249,17
Wholesale Market	\$2,695,902	\$2,484.011	\$2,451,614	\$2,165,627	\$2,905,569	\$2,343,904	\$2,688,227	\$2,529,719	\$2,181,293	\$2,497,173	\$2,294,202	\$2,600,883	\$28,810,35
Smart Metering Entity Charge	\$197.522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$197,522	\$199,244	\$2,371,98
I V Charges	\$36.573	\$36.573	\$36,573	\$36.573	\$36,573	\$36.573	\$36,573	\$36,573	\$36,573	\$36,573	\$36.573	\$36.573	\$438.87
TOTAL COST of POWER EXPENSE	\$106,707,770	\$106,195,676	\$106,116,344	\$105,949,475	\$106,035,142	\$106,598,456	\$108,667,324	\$107,733,668	\$105,698,547	\$104.867.851	\$105,854,438	\$106.737.138	\$1,277,161,83
TOTAL GOOT OF CHILL EAR LINGE	4.30,707,770	¥100,100,010	V.00,.10,044										

				2025	Cost of Pov	ver							
Loss Factors	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
LOSS FACTOR-every class but LU	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	1.0338	
LOSS FACTOR-LARGE USERS	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	1.0051	
SALES	I												
UNADJUSTED SALES (KWH)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	TOTAL
RESIDENTIAL	229,970,000	201,408,000	195,637,000	165,418,000	161,599,000	196,430,000	239,304,000	219,080,000	172,830,000	172,997,000	179,416,000	219,060,000	2,353,149,000
GENERAL SERVICE <50KW	66,888,000	60,631,000	61,150,000	53,657,000	52,106,000	54,737,000	61,484,000	58,658,000	51,825,000	53,520,000	56,846,000	64,335,000	695,837,000
DRYCORE	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	416,000	4,992,000
GENERAL SERVICE 50-1000KW NONI	95,025,000	85,478,000	84,994,000	72,746,000	67,092,000	69,433,000	78,581,000	75,415,000	66,089,000	68,311,000	75,645,000	87,219,000	926,028,000
SENERAL SERVICE 50-1000KW INT SENERAL SERVICE 1000-1500KW	137,063,000 33.741.000	124,763,000	129,079,000 32.836.000	117,029,000 31.087.000	118,793,000	124,767,000	138,545,000	132,439,000 34,444,000	118,626,000 31.516.000	122,101,000	124,591,000 31,743,000	137,465,000 33,561,000	1,525,261,000
GENERAL SERVICE 1000-1500KW GENERAL SERVICE 1500-5000 KW	58,124,000	31,066,000 52,783,000	56.713.000	53.625.000	31,746,000 55,506,000	32,620,000 57,823,000	35,475,000 64,272,000	61.864.000	55.173.000	31,757,000 55.097.000	54,657,000	57,895,000	391,592,000 683,532,000
ARGE USER	47.355.000	42.381.000	47.343.000	45.723.000	48.073.000	48.442.000	52.495.000	51.266.000	46.989.000	47.359.000	45.655.000	47,309,000	570,390,000
STREETLIGHTING	2,538,000	1,989,000	1,725,000	1,310,000	828,000	704,000	829,000	1,083,000	1,423,000	1,920,000	2,132,000	2,373,000	18,854,000
SENTINEL	3,917	3.917	3.917	3.917	3.917	3.917	3.917	3.917	3.917	3.917	3,917	3,917	47.000
JNMETERED	1,014,000	1,013,000	914,000	1,003,000	970,000	998,000	985,000	975,000	961,000	969,000	952,000	974,000	11,728,000
TOTAL KWH-SALES	672,137,917	601,931,917	610,810,917	542,017,917	537,132,917	586,373,917	672,389,917	635,643,917	545,851,917	554,450,917	572,056,917	650,610,917	7,181,410,000
PURCHASES	I												
Power Purchases (kWh)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	Total
Total Load Forecast kWh	693,802,000	619,488,000	630,959,000	557,357,000	555,971,000	604,191,000	693,751,000	652,667,000	562,184,000	570,845,000	590,910,000	669,985,000	7,402,110,000
Power Purchased (kW)	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	Total
Power Purchases - coincident peak (kW)	1,198,000	1,182,000	1,101,000	955,000	1,123,000	1,260,000	1,487,000	1,354,000	1,146,000	941,000	1,084,000	1,155,000	13,986,000
DEMAND CHARGES	I												
kW Breakdown by Type	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
Coincident System Peak	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Fransmission Network Charge IESO	90.8%	89.4%	93.3%	99.8%	94.5%	88.5%	91.8%	92.6%	85.5%	93.2%	94.7%	96.0%	
Fransmission Transformation Charge IESO	68.7%	71.3%	74.2%	101.1%	73.4%	67.2%	67.9%	70.5%	71.4%	76.7%	73.2%	73.6%	
Transmission Line Charge IESO	86.3%	90.2%	90.4%	112.6%	90.4%	88.1%	90.4%	90.0%	90.6%	94.9%	90.7%	89.1%	
Fransmission Network Charge HONI Fransmission Transformation Charge HONI	3.7% 3.7%	3.5% 3.4%	3.4% 3.3%	3.4% 3.4%	3.8% 3.7%	3.6%	3.7% 3.7%	3.5% 3.4%	3.3%	2.9% 3.0%	2.9% 2.9%	3.5% 3.4%	
Transmission Transformation Charge HONI	0.4%	0.4%	0.4%	0.5%	0.5%	0.3%	0.4%	0.3%	0.3%	0.4%	0.4%	0.4%	
Talishission Line Charge HONI	0.476	0.478	0.470	0.5%	0.576	0.376	0.470	0.3%	0.376	0.470	0.478	0.470	
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	ОСТ	NOV	DEC	TOTAL
Transmission Network Charge IESO	1,088,067.76 823,072	1,056,562 842,492	1,027,592 816,687	952,869 965,140	1,061,738 824,167	1,114,714 846,243	1,365,180 1,009,350	1,253,360 954,546	980,037 818,030	877,055 721,448	1,026,895 793,032	1,108,407 850,086	12,912,477 10,264,293
Transmission Transformation Charge IESO Transmission Line Charge IESO	1.033.523	1.066.117	995.465	1.075.353	1.015.622	1.109.884	1,009,350	1.218.613	1.038.469	721,448 892.922	793,032 982.912	1.029.129	10,264,293
Transmission Line Charge IESO Transmission Network Charge HONI	44.060	40.882	37.151	32.129	42.282	45.423	55.711	46.954	38.258	27.740	31.767	39.883	482.239
Fransmission Transformation Charge HONI	43.942	40,084	36.602	32,702	41.729	45,552	54.890	46,196	39.036	28 462	31,678	39,708	480,581
Fransmission Line Charge HONI	4,226	4,363	4,360	4,310	5,625	4,395	6,056	4,083	3,541	3,329	3,879	4,352	52,519
RATES													
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
Commodity Charge	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	
Fransmission Network Charge IESO	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	\$4.24	
Fransmission Transformation Charge HONI Fransmission Line Charge HONI	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	\$2.15 \$0.86	
ransmission Line Charge HONI Wholesale Market Charge	\$0.86	\$0.86 \$0.00390	\$0.86 \$0.00390	\$0.86	\$0.86 \$0.00390	\$0.86 \$0.00390	\$0.86	\$0.86 \$0.00390	\$0.86 \$0.00390	\$0.86	\$0.86	\$0.86	
rynolesale market Charge Smart Metering Entity Charge	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	\$0.00390	
Commodity Charge	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	\$0.1706	

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				2025	Cost of Pov	ver							
ost of Power													
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$1,198,186,2
ransmission Network Charge IESO	\$4,613,407	\$4,479,823	\$4,356,989	\$4,040,163	\$4,501,768	\$4,726,387	\$5,788,365	\$5,314,247	\$4,155,358	\$3,718,712	\$4,354,035	\$4,699,646	\$54,748,9
ransmission Transformation Charge IESO	\$2,082,371	\$2,131,505	\$2,066,219	\$2,441,803	\$2,085,142	\$2,140,996	\$2,553,655	\$2,415,002	\$2,069,616	\$1,825,262	\$2,006,371	\$2,150,717	\$25,968,6
ransmission Line Charge IESO	\$1,085,199	\$1,119,423	\$1,045,239	\$1,129,121	\$1,066,403	\$1,165,378	\$1,411,097	\$1,279,544	\$1,090,393	\$937,568	\$1,032,057	\$1,080,586	\$13,442,0
ransmission Network Charge HONI	\$159,219	\$147,735	\$134,252	\$116,103	\$152,795	\$164,146	\$201,322	\$169,678	\$138,252	\$100,244	\$114,796	\$144,124	\$1,742,6
Fransmission Transformation Charge HONI	\$94,370	\$86,084	\$78,607	\$70,231	\$89,618	\$97,827	\$117,881	\$99,211	\$83,834	\$61,124	\$68,031	\$85,276	\$1,032,0
Fransmission Line Charge HONI	\$3,616	\$3,734	\$3,731	\$3,688	\$4,813	\$3,761	\$5,182	\$3,494	\$3,030	\$2,849	\$3,319	\$3,724	\$44,94
Wholesale Market Charge	\$2,705,828	\$2,416,003	\$2,460,740	\$2,173,692	\$2,168,287	\$2,356,345	\$2,705,629	\$2,545,401	\$2,192,518	\$2,226,296	\$2,304,549	\$2,612,942	\$28,868,22
Smart Meter Entity	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$200,937	\$2,392,61
_V Charges	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$445,67
Fotal .	\$110,829,247	\$110,469,543	\$110,231,013	\$110,060,038	\$110,154,064	\$110,740,075	\$112,868,367	\$111,911,814	\$109,818,237	\$108,957,291	\$109,968,395	\$110,863,946	\$1,326,872,02
Switchgear Credit	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$271,776.00	-\$3,261,31
Cost of Power Summary	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Commodity Charge Including Global Adjustment	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$99,848,853	\$1,198,186,23
Fransmission Network	\$4,772,626	\$4,627,558	\$4,491,241	\$4,156,266	\$4,654,563	\$4,890,533	\$5,989,687	\$5,483,925	\$4,293,610	\$3,818,956	\$4,468,831	\$4,843,771	\$56,491,56
Fransmission Connection	\$2,993,781	\$3,068,969	\$2,922,019	\$3,373,067	\$2,974,201	\$3,136,186	\$3,816,039	\$3,525,475	\$2,975,097	\$2,555,027	\$2,838,003	\$3,048,528	\$37,226,39
Wholesale Market	\$2,705,828	\$2,416,003	\$2,460,740	\$2,173,692	\$2,168,287	\$2,356,345	\$2,705,629	\$2,545,401	\$2,192,518	\$2,226,296	\$2,304,549	\$2,612,942	\$28,868,22
Smart Metering Entity Charge	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$199,244	\$200,937	\$2,392,61
_V Charges	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$37,140	\$445,67
TOTAL COST of POWER EXPENSE	\$110,557,471	\$110,197,767	\$109,959,237	\$109,788,262	\$109.882.288	\$110,468,299	\$112,596,591	\$111.640.038	\$109,546,461	\$108,685,515	\$109,696,619	\$110,592,170	\$1,323,610,7



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UPDATED CAPITAL EXPENDITURE SUMMARY

2

1

3 1. INTRODUCTION

4 The capital expenditure plan for the 2021-2025 period details the system investments planned

- 5 by Hydro Ottawa utilizing the asset management and capital expenditure planning process
- 6 outlined in Exhibit 2-4-3: Distribution System Plan. Expenditures are planned in the following
- 7 OEB-defined categories: System Access, System Renewal, System Service, and General Plant.
- Backgright Table 1 provides a summary of these expenditures for 2021-2025. Updates to capital
- 9 expenditures in 2021 and 2022 are the result of the updated MiGen project, as described in the
- 10 updates to section 2.3.3 of Attachment 2-4-3(E): Material Investments.

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Table 1 – AS ORIGINALLY SUBMITTED – Summary of 2021-2025 Capital Expenditures (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$31.0	\$27.4	\$24.3	\$25.2	\$23.9	\$26.4
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(41.3)	\$(25.2)	\$(19.9)	\$(19.2)	\$(19.3)	\$(25.0)
TOTAL	\$121.8	\$98.9	\$89.6	\$97.2	\$96.0	\$100.7

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Table 1 – UPDATED FOR 2019 ACTUALS – Summary of 2021-2025 Capital Expenditures (\$'000,000s)

Investment Category	2021	2022	2023	2024	2025	Average 2021-2025
System Access	\$56.7	\$41.0	\$37.4	\$34.5	\$34.0	\$40.7
System Renewal	\$43.3	\$44.0	\$40.2	\$39.4	\$40.5	\$41.5
System Service	\$26.7	\$28.3	\$24.3	\$25.2	\$23.9	\$25.7
General Plant	\$32.0	\$11.7	\$7.6	\$17.4	\$16.9	\$17.1
Capital Contributions	\$(39.2)	\$(23.5)	\$(19.9)	\$(19.2)	\$(19.3)	\$(24.2)
TOTAL	\$119.5	\$101.5	\$89.6	\$97.2	\$96.0	\$100.8



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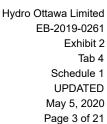
1 UPDATED Attachment 2-4-3(A): OEB Appendix 2-AA - Capital Programs Table and UPDATED 2 Attachment 2-4-3(B): OEB Appendix 2-AB - Capital Expenditure Summary provide an overview 3 of Hydro Ottawa's capital programs and expenditures, respectively. For comprehensive 4 explanatory notes and variance analyses of Hydro Ottawa's capital expenditures, please refer to 5 section 8 of Exhibit 2-4-3: Distribution System Plan.

6

The utility's 2016-2020 capital plan represented the highest level of average annual capital expenditures in any multi-year rate term in Hydro Ottawa's history. Capital spending during this period has focused on the enhancement of system capacity to keep pace with growth and shifts in loads within the service territory, as well as renewal of the aged and aging infrastructure at risk of failure. Key accomplishments have included the following: extensive replacements and enhancements of core infrastructure, such as overhead power lines and underground cables; upgrades to fibre optic networks; acquisition of a new Supervisory Control and Data Acquisition System ("SCADA"); and asset relocations and expansions to support major local infrastructure projects, such as the City of Ottawa's Light Rail Transit and renewal of north-south arteries in the downtown core. These and other initiatives have translated into improved system reliability and performance, with the utility having consistently met or exceeded its reliability targets over the 2016-2019 timeframe. Hydro Ottawa is on track to successfully complete its plan for 2016-2020, with adjustments for typical changes and evolving circumstances.

20

Notwithstanding this progress, however, renewing Hydro Ottawa's aged and aging infrastructure in deteriorating condition (i.e. stations, and underground and overhead systems) at an appropriate pace remains a priority for both near-term performance and long-term sustainability of the distribution system. Hydro Ottawa's service territory continues to be characterized by both a growing and a shifting customer base. In terms of growth, expanding suburban areas and load intensification in established communities are driving a need for investments to maintain reliability, increase supply capacity, and reduce the frequency and duration of outages. At the same time, as customer priorities and needs evolve with the advancement of technology and innovation, they are triggering discernible shifts: in patterns of supply and demand, in





1 preferences with regards to the availability of information on the services received by 2 customers, and in expectations for how quickly and effectively Hydro Ottawa can restore service 3 when an outage occurs.

4

These pressures and priorities are reflected in the top four drivers of the utility's planned expenditures for 2021-2025: Customer Service Requests, Failure Risk, System Capital Investment Support, and Capacity Constraints. Many programs under the System Access investment category are driven by Customer Service Requests, including expansion of the distribution system, residential connections, commercial connections, and generation connections. Assets that are being replaced due to Failure Risk in the System Renewal investment category include the following: station transformers, station switchgear, protection and control ("P&C") equipment, batteries, poles, overhead ("OH") switches, cables, civil structures, and underground ("UG") switchgear. Projects driven by System Capital Investment Support include capital contributions to intangible assets purchased from Hydro One Networks Inc. ("HONI") in conjunction with Hydro Ottawa's major station projects, especially the new Cambrian Municipal Transformer Station ("MTS") and the New East Station. (Additional information on Cambrian MTS is presented in section 3 below). Projects driven by Capacity Constraints likewise include construction of the aforementioned stations as well as associated distribution work to bring additional capacity to growth pockets.

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The updated version of Figure 1 shows annual capital expenditures for both the 2016-2020 and 22 2021-2025 periods.

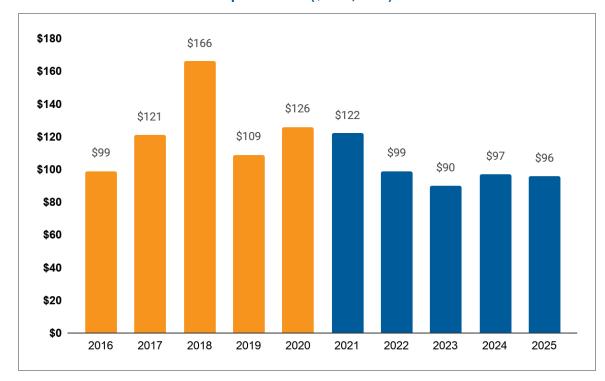
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²³ The previous project name for Cambrian MTS was South Nepean MTS.



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Figure 1 – AS ORIGINALLY SUBMITTED – Summary of 2016-2025 Annual Capital Expenditures (\$'000,000s)



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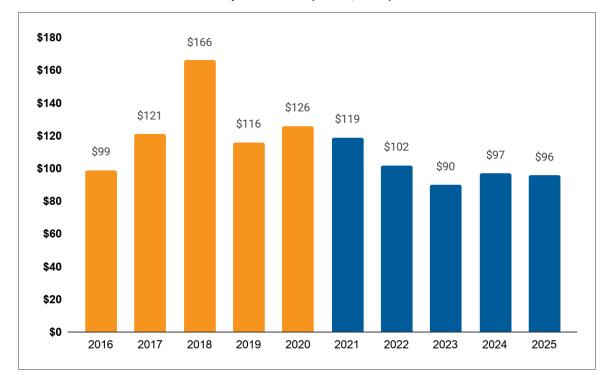
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Figure 1 – UPDATED FOR 2019 ACTUALS – Summary of 2016-2025 Annual Capital Expenditures (\$'000,000s)



5 Figure 1 corroborates the expectation signalled in Hydro Ottawa's previous rebasing application

6 that a historically high level of annual capital expenditures "will be sustained, if not increased,

7 through the decade from 2020-2030."2

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9 Both the 2016-2020 and the 2021-2025 periods contain large generational projects – most 0 notably, the Facilities Renewal Program in the 2016-2025 period and the Cambrian MTS project

in the 2021-2025 period.³ The updated version of Figure 2 below shows a summary of capital

12 expenditures excluding these two projects. Of note, the spike in expenditures in 2018 was due,

13 in part, to three major severe weather events, not the least of which were the six tornadoes that

¹⁴ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015), Exhibit A-2-1, page 10.

¹⁶ ³ For additional information on the Facilities Renewal Program, please see UPDATED Attachment 2-1-1(A): New

¹⁷ Administrative Office and Operations Facilities; for Cambrian MTS, please see Attachment 2-4-3(E): Material

¹⁸ Investments.

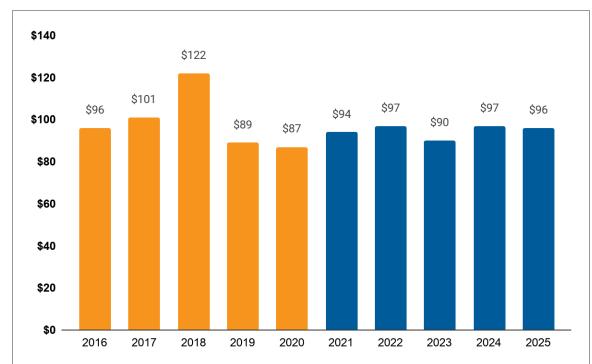


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touched down in the Ottawa area in September of that year. Additional contributing factors for the 2018 increase included the acceleration of dark fibre installation and increased System Access demands, including those associated with projects at the Canada Science and Technology Museum and a new fulfillment centre constructed by Amazon in the eastern outskirts of Ottawa.

Figure 2 – AS ORIGINALLY SUBMITTED – Summary of 2016-2025 Capital Expenditures

Excluding Facilities Renewal Program and Cambrian MTS (\$'000,000s)



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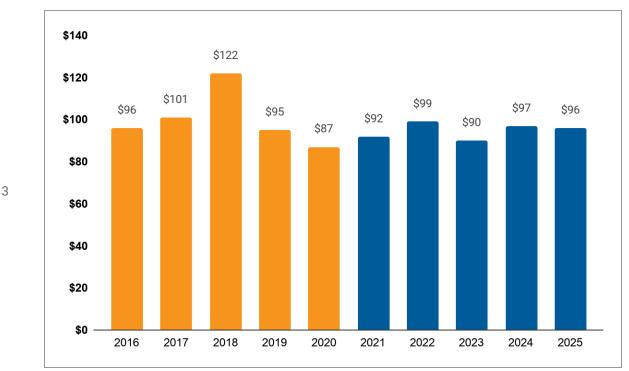
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Figure 2 – UPDATED FOR 2019 ACTUALS – Summary of 2016-2025 Capital Expenditures

Excluding Facilities Renewal Program and Cambrian MTS (\$'000,000s)



5 2. RATIONALIZATION PROCESS

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6 Hydro Ottawa undertook an extensive rationalization process as a prerequisite to formulating 7 the 2021-2025 capital expenditure levels that are summarized in this Schedule.

9 The first step in this process was the development of an asset needs forecast. This forecast

- identified investment levels that were deemed to be necessary from an engineering point of
- view, taking into account asset age, safety, and reliability considerations.
- 13 Thereafter, a more comprehensive review was performed that assessed the following factors:
- 14 asset needs; safety; reliability; customer growth; resource constraints; expected rate impacts;
- 15 customer input; financial considerations; and resourcing considerations.



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1 This review resulted in a reduction in the capital expenditure forecast of approximately \$50M per 2 year. The expenditure levels presented in this Application represent the end product of this 3 assessment and rationalization process, and are consistent with OEB-approved levels from the 2016-2020 period. The resulting "average run rate" of approximately \$100.7M per year 5 represents the expenditure levels required to ensure the safety and reliability of the system, and to address challenges associated with aging infrastructure and customer growth. After adjusting 7 for 2019 actual capital expenditures and updates to the MiGen project as described in the updated version of section 2.3.3 of Attachment 2-4-3(E): Material Investments, the resulting "average run rate" has been updated to \$100.8M per year.

10

2021-2025 CAPITAL EXPENDITURES SUMMARY 3. 11

Detailed justification for the projects and programs that comprise Hydro Ottawa's overall capital investment plan for 2021-2025 are outlined in Exhibit 2-4-2: Capital Expenditure Details and Exhibit 2-4-3: Distribution System Plan.

15

16 As mentioned above, capital expenditures in this period include the construction of Cambrian MTS. This project consists of two distinct components: (1) the new MTS set to be constructed by Hydro Ottawa; and (2) upgrades to existing transmission facilities, as well as construction of a segment of new transmission line, by HONI. These facilities are required to accommodate customer load growth and increase supply capacity in the South Nepean area of Ottawa, which has already reached the limits of local transformation capacity. Seeing as this project is driven by the needs of Hydro Ottawa and its customers, the bulk of the costs are being apportioned to Hydro Ottawa. In October 2019, the OEB granted formal approval to HONI and Hydro Ottawa to proceed with construction of their respective segments of this project. The utilities had applied 25 for leave to construct ("LTC") authorization, pursuant to Section 92 of the Ontario Energy Board 26 Act, 1998 in May 2019.⁴ The project is set to be energized in Q2 2022.

²⁷ The case number of the proceeding in which the OEB adjudicated HONI and Hydro Ottawa's joint application is 28 EB-2019-0077.



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- 1 The sizeable Connection Cost Recovery Agreement ("CCRA") payments associated with this
- 2 project will exert significant influence on the overall capital spending envelope for 2021-2025.
- 3 Projects of this magnitude are not undertaken on a regular basis, and as such, the larger capital
- 4 expenditures in the 2021-2022 period are something of an anomaly.

6 Similar to Figure 2 above, Table 2 shows the planned capital expenditures for 2021-2025 with 7 and without the Cambrian MTS project. In the absence of this project, annual average 8 expenditures for the five-year rate term are \$94.7M. This figure is more representative of typical 9 capital expenditure requirements for a period of this length. After adjusting for 2019 actual 10 capital expenditures and updates to the MiGen project as described in updates to section 2.3.3 11 of Attachment 2-4-3(E): Material Investments, the annual average expenditures for the five-year 12 rate term is determined to be \$94.8M.

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Table 2 – AS ORIGINALLY SUBMITTED – 2021-2025 Capital Expenditures without Cambrian MTS (\$'000,000s)

Capital Expenditures			Forecast			Average
(Net)	2021	2022	2023	2024	2025	2021-2025
Total (Table 1)	\$121.8	\$98.9	\$89.6	\$97.2	\$96.0	\$100.7
Cambrian MTS	\$27.9	\$2.2	\$0.0	\$0.0	\$0.0	\$6.0
TOTAL WITHOUT CAMBRIAN	\$93.8	\$96.7	\$89.6	\$97.2	\$96.0	\$94.7

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Table 2 – UPDATED FOR 2019 ACTUALS – 2021-2025 Capital Expenditures without Cambrian MTS (\$'000,000s)

Capital Expenditures			Forecast			Average
(Net)	2021	2022	2023	2024	2025	2021-2025
Total (Table 1)	\$119.5	\$101.6	\$89.6	\$97.2	\$96.0	\$100.8
Cambrian MTS	\$27.9	\$2.2	\$0.0	\$0.0	\$0.0	\$6.0
TOTAL WITHOUT CAMBRIAN	\$91.6	\$99.3	\$89.6	\$97.2	\$96.0	\$94.8



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With regards to productivity and continuous improvement, it should be noted that these remain firmly embedded in Hydro Ottawa's capital expenditure program. As an example, the utility has committed to adopt the ISO 55000 Asset Management Standard as part of continual improvement in asset management practices. This asset management framework strengthens the strategic asset decision-making processes by striving to do the following: balance the weighting of cost, risk, and asset performance that meet or exceed service level expectations of customers; comply with the terms of applicable acts, licences, and codes; improve asset value and resource efficiency; and minimize health, safety, and environmental impacts. Other planned productivity initiatives for the 2021-2025 period include performing detailed analysis of field crew wrench time and identifying opportunities for further optimization, implementing seasonal construction shifts, and rationalizing fleet assets. Additional information on these and other activities is available in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives.

13

14 4. 2021-2025 CAPITAL ADDITIONS SUMMARY

Hydro Ottawa's Capital Additions over the 2021-2025 period are summarized in Table 3 below.
Consistent with the arrangement set forth in the Approved Settlement Agreement governing the utility's 2016-2020 rate plan, Hydro Ottawa proposes to track capital additions in the following

three categories: System Access; System Renewal and System Service, and General Plant.⁵

19

In addition, Hydro Ottawa is requesting to continue the separate deferral account for the revenue requirement related to CCRA payments. This account would include both new facilities as well as true-up payments required by HONI for existing facilities. Hydro Ottawa is also requesting to maintain the variance account (with some modifications) to record the revenue requirement impact associated with any underspending between actual and forecasted cumulative capital additions. For more information on these accounts, please see Exhibit 9-2-1: New Deferral and Variance Accounts. The updated version of Table 3 below reflects 2019 actuals and updates to the MiGen project, as described in the updated version of section 2.3.3

²⁸ ⁵ The System Renewal and System Service categories have been merged into one category to reflect Hydro

Ottawa's standard operating practice to shift funds between the two categories, as warranted by customer and operational requirements.



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- of Attachment 2-4-3(E): Material Investments. In addition, revisions have been made to Table 3
- 2 to correspond with the originally submitted versions of 2021-2025 Appendix 2-BA: Fixed Asset
- 3 Continuity Schedule, filed as Attachments 2-2-1(F)-(J), respectively.

Table 3 – AS ORIGINALLY SUBMITTED – 2021-2025 Summary of Capital Additions (\$'000s)

Category	2021	2022	2023	2024	2025
System Access (net of contribution)	\$17,820	\$17,879	\$17,720	\$15,626	\$15,255
System Renewal and Service	\$71,138	\$92,858	\$50,671	\$59,601	\$82,071
General Plant excluding CCRAs	\$14,198	\$12,343	\$6,513	\$5,822	\$18,043
TOTAL CAPITAL ADDITIONS	\$103,156	\$123,080	\$74,905	\$81,049	\$115,369

Table 3 – AS REVISED – 2021-2025 Summary of Capital Additions (\$'000s)

Category	2021	2022	2023	2024	2025
System Access (net of contribution)	\$17,952	\$17,922	\$17,620	\$15,630	\$15,312
System Renewal and Service	\$67,766	\$90,299	\$54,420	\$59,767	\$81,904
General Plant excluding CCRAs	\$14,198	\$12,343	\$6,513	\$5,822	\$18,043
TOTAL CAPITAL ADDITIONS	\$99,916	\$120,564	\$78,554	\$81,218	\$115,259

Table 3 – UPDATED FOR 2019 ACTUALS – 2021-2025 Summary of Capital Additions (\$'000s)

Category	2021	2022	2023	2024	2025
System Access (net of contribution)	\$17,952	\$17,922	\$17,620	\$15,630	\$15,312
System Renewal and Service	\$63,004	\$94,210	\$54,420	\$59,767	\$81,904
General Plant excluding CCRAs	\$14,198	\$12,343	\$6,513	\$5,822	\$18,043
TOTAL CAPITAL ADDITIONS	\$95,155	\$124,475	\$78,554	\$81,218	\$115,259

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1 5. 2016-2020 CAPITAL ADDITIONS SUMMARY

- 2 For the 2016-2020 period, Hydro Ottawa is set to maintain in-service addition levels somewhat
- 3 above the levels approved by the OEB. As shown in Table 4 below, the in-service additions in all
- 4 three investment categories are set to exceed approved amounts. For 2016-2020, Hydro
- 5 Ottawa is projecting Capital Additions to exceed the overall envelope by \$54.1M. After adjusting
- 6 for 2019 actual Capital Additions, the utility is projecting Capital Additions to exceed the overall
- 7 envelope by \$70.4M.



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Table 4 - AS ORIGINALLY SUBMITTED - 2016-2020 Capital Additions vs. OEB-Approved **Amounts (\$'000s)**

CATEGORY	2016	2017	2018	2019	2020	Total	% Variance			
OEB-Approved (Net of Contri	bution)									
System Access	\$12,628	\$11,798	\$12,034	\$12,274	\$12,520	\$61,254				
System Renewal and System Service	\$52,744	\$53,389	\$70,133	\$43,710	\$81,123	\$301,099				
General Plant ⁶	\$8,434	\$16,703	\$7,059	\$7,630	\$15,019	\$54,845				
TOTAL OEB-APPROVED CAPITAL ADDITIONS	\$73,806	\$81,889	\$89,226	\$63,614	\$108,662	\$417,198				
Historical / Bridge (Net of Contribution)										
System Access	\$14,065	\$18,051	\$23,084	\$14,295	\$20,970	\$90,464				
System Renewal and System Service	\$55,336	\$60,632	\$67,867	\$84,738	\$45,956	\$314,529				
General Plant ⁷	\$12,229	\$18,295	\$6,510	\$13,420	\$15,845	\$66,300				
TOTAL HISTORICAL / BRIDGE CAPITAL ADDITIONS	\$81,630	\$96,977	\$97,462	\$112,453	\$82,771	\$471,293				
Variance										
System Access (Net)	\$1,437	\$6,253	\$11,050	\$2,020	\$8,450	\$29,210	48%			
System Renewal and System Service	\$2,592	\$7,243	\$(2,266)	\$41,028	\$(35,167)	\$13,430	4%			
General Plant ⁸	\$3,795	\$1,592	\$(549)	\$5,790	\$826	\$11,455	21%			
TOTAL CAPITAL ADDITIONS VARIANCE	\$7,824	\$15,088	\$8,236	\$48,838	\$(25,890)	\$54,095				

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 $^{^{4}\,}$ The Facilities Renewal Program and new CCRAs are excluded, as per the Approved Settlement Agreement, 5 EB-2015-0004 (December 7, 2015). 6 *7 Ibid*.

^{7 8} *Ibid*.



1 2 Hydro Ottawa Limited EB-2019-0261 Exhibit 2 Tab 4 Schedule 1 UPDATED May 5, 2020 Page 14 of 21

Table 4 – UPDATED FOR 2019 ACTUALS – 2016-2020 Capital Additions vs.

OEB-Approved Amounts (\$'000s)

CATEGORY	2016	2017	2018	2019	2020	Total	% Variance		
OEB-Approved (Net of Contri	bution)								
System Access	\$12,628	\$11,798	\$12,034	\$12,274	\$12,520	\$61,254			
System Renewal and System Service	\$52,744	\$53,389	\$70,133	\$43,710	\$81,123	\$301,099			
General Plant ⁹	\$8,434	\$16,703	\$7,059	\$7,630	\$15,019	\$54,845			
TOTAL OEB-APPROVED CAPITAL ADDITIONS	\$73,806	\$81,889	\$89,226	\$63,614	\$108,662	\$417,198			
Historical / Bridge (Net of Contribution)									
System Access	\$14,065	\$18,051	\$23,084	\$24,285	\$20,970	\$100,455			
System Renewal and System Service	\$55,336	\$60,632	\$67,867	\$86,603	\$47,785	\$318,223			
General Plant ¹⁰	\$12,229	\$18,295	\$6,510	\$15,682	\$15,845	\$68,968			
TOTAL HISTORICAL / BRIDGE CAPITAL ADDITIONS	\$81,630	\$96,977	\$97,462	\$126,570	\$84,601	\$487,646			
Variance									
System Access (Net)	\$1,437	\$6,253	\$11,050	\$12,011	\$8,450	\$39,201	64%		
System Renewal and System Service	\$2,592	\$7,243	\$(2,266)	\$42,893	\$(33,338)	\$17,124	6%		
General Plant ¹¹	\$3,795	\$1,592	\$(549)	\$8,052	\$826	\$14,123	26%		
TOTAL CAPITAL ADDITIONS VARIANCE	\$7,824	\$15,088	\$8,236	\$62,956	\$(24,061)	\$70,448			

4 System Access has the largest variance, with the level of third-party demand exceeding

5 projections, including from such projects as the City of Ottawa's Light Rail Transit, the Canada

6 Science and Technology Museum, Elgin Street Renewal, and construction of an Amazon

11

The Facilities Renewal Program and new CCRAs are excluded, as per the Approved Settlement Agreement,
 EB-2015-0004 (December 7, 2015).

⁸ EB-201 9 ¹⁰ *Ibid*.

^{10 &}lt;sup>11</sup> *Ibid*.



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1 distribution warehouse. The mix of the programs also changed from the original forecast.

2 System Expansion and Infill, which in general have lower contributions, exceeded the budget

3 expectation. This explains the capital contributions which were lower than budgeted. All of these

projects were third-party driven and were therefore ones which Hydro Ottawa had an obligation

5 to complete.

6

As submitted in the utility's original Application, System Renewal and System Service are set to exceed approved levels by 4% mainly on account of Emergency Renewal spending (both emergency and storm restoration capital and critical renewals). After adjusting for 2019 actual spending, System Renewal and System Service are set to exceed approved levels by 6%. The Ottawa area experienced multiple extreme weather events of significance during the 2016-2020 timeframe, especially in 2018 which featured an ice storm in April, a wind storm in May, and six tornadoes in September. All of these events resulted in the utility incurring a large amount of unbudgeted capital replacement costs.

15

With respect to critical renewals, over the past few years Hydro Ottawa has increased asset inspections as part of its reliability improvement program. Increased inspections have led to more assets being identified as being in a "critical state." "Critical state" means that the assets have been identified as having "functionally" failed, but have not yet caused an outage (e.g. poles that have been deemed to have deteriorated to a point where they no longer meet their designed strength requirements). Critical renewal is more cost-effective than emergency renewal when there is a power outage, as critical renewals can be performed in a planned manner with no accompanying need to incur overtime costs.

24

The amount for General Plant Capital Additions, as shown in Table 4 above, is in accordance with the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate plan. Both the Facilities Renewal Program and new CCRAs are removed for purposes of the Capital Variance Account, as they are recorded in separate Deferral and Variance Accounts. General Plant is set to exceed approved levels largely on account of the following: (i) true-up CCRA



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- 1 payments to HONI¹²; and (ii) scope change in several projects, including the Enterprise
- 2 Resource Planning ("ERP") upgrade. A new Human Resources software module (Workday) was
- 3 added to the ERP JDE 9.2 upgrade project. This module has helped lead to reduced processes,
- 4 increased employee self-service capabilities, and enhanced productivity.

5

6 6. 2016-2020 CAPITAL EXPENDITURES SUMMARY

- 7 Similar to section 5 above, for the 2016-2020 period Hydro Ottawa's capital expenditures in all
- 8 three investment categories are set to exceed the budget plan. As <mark>submitted in the utility's</mark>
- 9 original Application, as shown in Table 5, the utility is projecting an overall variance of \$83.4M.
- 10 After adjusting for 2019 actual capital expenditures, Hydro Ottawa is projecting an overall
- 11 variance of \$89.6M.

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¹² As per the Approved Settlement Agreement, the separate deferral account for CCRA payments is intended to

¹³ facilitate recovery of costs from customers for the annual revenue requirement impact of CCRA payments paid to

¹⁴ HONI, commencing in the year in which the facilities to which each CCRA payment relates provide services to Hydro

¹⁵ Ottawa customers.



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Table 5 – AS ORIGINALLY SUBMITTED – 2016-2020 Capital Expenditures vs. Approved (\$'000s)

CATEGORY	2016	2017	2018	2019	2020	Total	% Variance			
Approved ¹³ (Net of Contributi	ion)									
System Access	\$15,300	\$11,966	\$12,205	\$12,450	\$12,699	\$64,620				
System Renewal and System Service	\$60,594	\$65,780	\$66,010	\$66,452	\$69,032	\$327,868				
General Plant	\$45,899	\$48,138	\$18,276	\$18,695	\$13,954	\$144,962				
TOTAL CAPITAL EXPENDITURES	\$121,794	\$125,883	\$96,491	\$97,597	\$95,685	\$537,450				
Historical / Bridge (Net of Co	Historical / Bridge (Net of Contribution)									
System Access	\$18,316	\$13,597	\$24,147	\$18,847	\$20,387	\$95,294				
System Renewal and System Service	\$60,320	\$68,655	\$84,702	\$56,955	\$63,731	\$334,363				
General Plant	\$20,423	\$38,300	\$56,738	\$33,586	\$42,170	\$191,217				
TOTAL HISTORICAL / BRIDGE CAPITAL EXPENDITURES	\$99,058	\$120,552	\$165,587	\$109,388	\$126,288	\$620,874				
Variance										
System Access (Net)	\$3,015	\$1,631	\$11,942	\$6,397	\$7,688	\$30,674	47%			
System Renewal and System Service	\$(274)	\$2,876	\$18,692	\$(9,498)	\$(5,301)	\$6,796	2%			
General Plant	\$(25,476)	\$(9,838)	\$38,462	\$14,892	\$28,216	\$46,255	32%			
TOTAL CAPITAL EXPENDITURES VARIANCE	\$(22,735)	\$(5,331)	\$69,096	\$11,792	\$30,603	\$83,425				

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 $^{^{4}}$ 13 Approved capital expenditures for 2016-2020 equate to those submitted, the \$10M settlement reduction was

⁵ applied to capital assets only



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Table 5 – UPDATED FOR 2019 ACTUALS – 2016-2020 Capital Expenditures vs. Approved (\$'000s)

CATEGORY	2016	2017	2018	2019	2020	Total	% Variance
Approved ¹⁴ (Net of Contribut	ion)						
System Access	\$15,300	\$11,966	\$12,205	\$12,450	\$12,699	\$64,620	
System Renewal and System Service	\$60,594	\$65,780	\$66,010	\$66,452	\$69,032	\$327,868	
General Plant	\$45,899	\$48,138	\$18,276	\$18,695	\$13,954	\$144,962	
TOTAL CAPITAL EXPENDITURES	\$121,794	\$125,883	\$96,491	\$97,597	\$95,685	\$537,450	
Historical / Bridge (Net of Co	ntribution)						
System Access	\$18,316	\$13,597	\$24,147	\$25,368	\$20,387	\$101,815	
System Renewal and System Service	\$60,320	\$68,655	\$84,702	\$56,328	\$63,426	\$333,432	
General Plant	\$20,423	\$38,300	\$56,738	\$34,158	\$42,170	\$191,789	
TOTAL HISTORICAL / BRIDGE CAPITAL EXPENDITURES	\$99,058	\$120,552	\$165,587	\$115,854	\$125,983	\$627,035	
Variance							
System Access (Net)	\$3,015	\$1,631	\$11,942	\$12,919	\$7,688	\$37,195	58%
System Renewal and System Service	\$(274)	\$2,876	\$18,692	\$(10,124)	\$(5,606)	\$5,564	2%
General Plant	\$(25,476)	\$(9,838)	\$38,462	\$15,463	\$28,216	\$46,827	32%
TOTAL CAPITAL EXPENDITURES VARIANCE	\$(22,735)	\$(5,331)	\$69,096	\$18,257	\$30,298	\$89,585	

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¹ The projected System Access capital expenditure variance <mark>(as submitted in the utility's original</mark>

⁵ Application) of \$30.7M over the five years is in line with the capital additions variance of \$29.2M

⁶ under section 5 above. After adjusting for 2019 actual System Access capital expenditures, the

⁷ variance of \$37.2M over the five years is in line with the capital additions variance of \$39.2M

⁸ under section 5 above. The variance is explained by increased third-party demand and lower

⁹ capital contributions due to the mix of projects.

^{10 &}lt;sup>14</sup> Approved capital expenditures for 2016-2020 equate to those submitted, the \$10M settlement reduction was

¹¹ applied to capital assets only



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1 System Renewal and System Service capital expenditures are projected to only exceed budget 2 by 2%, largely on account of higher Emergency Renewal than planned and historical levels

3 associated with the 2018 extreme weather events.

4

The projected variance for General Plant capital expenditures is \$46.3M. After adjusting for 2019 actual General Plant capital expenditures, this variance has been updated to \$46.8M. This is larger than the capital addition variance of \$11.5M (updated to \$14.1M for 2019 actual capital additions) in Table 4 above primarily because the Facilities Renewal Program and HONI CCRA payments are not displayed in Table 4, in accordance with the Capital Variance Account that was approved for use as per the Decision rendered by the OEB on Hydro Ottawa's 2016-2020 rate application. Total CCRAs for new service and true-up payments are projecting \$50.4M over 2016-2020, as originally submitted. After adjusting for 2019 actuals, total CCRAs for new service and true-up payment associated with Cambrian MTS. The CCRAs are significantly higher than historical spending and are set to exceed the budget of \$24.6M by \$25.8M. After accounting for 2019 actuals, CCRAs are set to exceed the budget of \$24.6M by \$25.1M.

17

The projects that led to these overages were carefully monitored by Hydro Ottawa. It was determined that proceeding with these projects was a sound business decision and was in the best interests of customers. Other projects in the utility's portfolio were delayed in an attempt to ameliorate these overages and lessen their impact. For example, some work at Riverdale TS, Overbrook TS, Bayswater DS, and Bells Corners DS was delayed.

23

Hydro Ottawa's new operations and administrative facilities were completed in 2019. As part of its Decision and Order on Hydro Ottawa's 2016-2020 rate application, the OEB concluded that the need for the facilities had been established. During the settlement process for that application, all intervenors and OEB staff accepted the proposed project cost of \$92.5M identified by Hydro Ottawa. Ultimately, the OEB approved \$66.0M in "provisional funding" for the

^{29 15} Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).



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- 1 facilities, with any additional amounts being subject to a prudency review at the utility's next
- 2 rebasing.¹⁷ Hydro Ottawa has filed evidence in this Application to support its expenditures on
- 3 these new facilities (UPDATED Attachment 2-1-1(A): New Administrative Office and Operations
- 4 Facilities).

5

6 7. APPENDICES AND SPECIAL STUDIES

- 7 Attached to Exhibit 2-4-3: Distribution System Plan are the capital expenditure-related
- 8 appendices that electricity distributors must submit, pursuant to the Chapter 2 and Chapter 5
- 9 Filing Requirements for Electricity Distribution Rate Applications, as updated on July 12, 2018
- 10 and addended on July 15, 2019. In addition, a number of special studies to support Hydro
- 11 Ottawa's proposed capital expenditure plan and rate base levels for the 2021-2025 period are
- 12 likewise attached.

13

14 These appendices and special studies are as follows:

15

- UPDATED Attachment 2-4-3(A): OEB Appendix 2-AA Capital Programs Table
- **UPDATED** Attachment 2-4-3(B): OEB Appendix 2-AB Capital Expenditure Summary
- Attachment 2-4-3(C): OEB Appendix 5-A: Chapter 5 Appendix
- Attachment 2-4-3(D): Independent Assessment of Hydro Ottawa's Distribution System
 20 Plan
- Attachment 2-4-3(E): Material Investments (section 2.3.3 of which has been updated)
- Attachment 2-4-3(F): Fleet Replacement Program
- Attachment 2-4-3(G): Strategic Asset Management Plan
- Attachment 2-4-3(H): Distribution System Climate Risk and Vulnerability Assessment
- Attachment 2-4-3(I): Hydro Ottawa Climate Change Adaptation Plan
- Attachment 2-4-3(J): ISO 55000 Gap Analysis
- Attachment 2-4-3(K): Local Achievable Potential Study
- Attachment 2-4-3(L): Metering Roadmap

²⁹ ¹⁷ *Ibid*, page 6.



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Attachment 2-4-3(M): Asset Condition Assessment - Third Party Review



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UPDATED DISTRIBUTION SYSTEM PLAN ATTACHMENTS

2

1

- 3 Hydro Ottawa's 2021-2025 Distribution System Plan ("DSP") is included in this Application as
- 4 Exhibit 2-4-3. While the updates being made to this Application for purposes of incorporating
- 5 2019 actuals include certain updates to Exhibit 2-4-3, Hydro Ottawa is opting to forego re-filing
- of the Exhibit in its entirety for a few reasons.

7

- 8 First, the updates are very limited in their scope and number. What's more, both the length and
- 9 electronic file size of Exhibit 2-4-3 are significant. Hydro Ottawa is therefore of the view that
- 10 wholesale re-filing of the Exhibit would frustrate, rather than facilitate, efficient review of the
- 11 updated Application materials.

12

In lieu of re-filing, Hydro Ottawa is including this cover sheet, which provides a summary of the modest set of updates to select Attachments of the Exhibit, as follows:

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18

19

20

 UPDATED Attachment 2-4-3(A): OEB Appendix 2-AA - Capital Programs Table and UPDATED Attachment 2-4-3(B): OEB Appendix 2-AB - Capital Expenditure Summary – these appendices provide an overview of Hydro Ottawa's capital programs and expenditures, respectively. Both of these appendices have been updated to incorporate 2019 actuals.

2122

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2425

 Attachment 2-4-3(E): Material Investments – the only updates to this Attachment are for the utility's Distribution Enhancements program within the System Service category.
 More specifically, the updates are in relation to the Smart Grid project known as "MiGen" described in section 2.3.3.

- 27 As originally submitted, section 2.3.3 of Attachment 2-4-3(E): Material Investments provides a
- 28 full description of the MiGen project, including external partners engaged in project development



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1 and deployment. Among the key partners is Natural Resources Canada ("NRCan"). In identifying NRCan as a participant, Hydro Ottawa also states the following:

3 4

5

6 7

8

9 10

11 12 [NRCan] is a critical partner for this project. At the time of writing, in response to expressions of interest from NRCan itself, Hydro Ottawa is engaged in detailed discussions with NRCan regarding the lessons learned from the initial phase of the project and how these lessons can be incorporated into the next phase. Through this engagement, NRCan has signalled openness to adjusting the parameters of the project, if it can be demonstrated that such adjustments will add value and ensure that the broader objectives of both the project and NRCan's funding program will be met. Depending upon the outcome of further discussions with NRCan, Hydro Ottawa may subsequently submit updates to the project information included in this Application.1

- 15 In step with the foregoing, and with the outcomes of Hydro Ottawa's recent engagement with
- 16 NRCan on this matter, the utility is hereby submitting updates to the project information for
- MiGen. Please see the updated version of section 2.3.3 in Attachment 2-4-3(E): Material
- 18 Investments for additional information.

¹⁹ Attachment 2-4-3(E): Material Investments, page 357.

UPDATED - Appendix 2-AA Capital Programs Table

Projects	2016	2017	2018	2019	2020 Bridge Year	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
Reporting Basis	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
System Access										
Plant Relocation	7,129	5,183	4,737	10,376	12,012	10,135	8,418	8,474	5,451	5,427
Residential	4,350	4,945	6,179	11,473	4,681	4,893	4,999	5,006	5,010	4,980
Commercial	11,880	10,990	19,519	9,176	11,023	16,078	13,465	11,639	11,806	11,914
System Expansion	8,726	3,833	5,984	11,703	19,128	20,116	8,685	6,960	6,769	6,289
Stations Embedded Generation	678	291	89	165	338	360	296	297	306	319
Infill & Upgrade	3,844	4,787	3,046	3,016	4,087	4,164	4,221	4,099	4,164	4,151
Damage to Plant	1,122	851	1,126	2,160	986	-	-	-	-	-
Metering	77	26	169	1,190	1,075	947	947	958	957	959
Sub-Total	37,805	30,908	40,849	49,259	53,331	56,693	41,032	37,434	34,462	34,039
System Renewal										
Stations Asset Renewal	13,346	13,991	20,478	7,683	6,970	9,938	12,071	8,444	7,437	9,316
OH Distribution Assets Renewal	11,801	11,099	10,846	5,879	8,011	7,999	8,795	8,795	8,841	8,044
UG Distribution Assets Renewal	9,677	9,421	9,023	4,927	8,327	11,082	10,780	11,164	11,079	11,077
Corrective Renewal	7,815	9,304	14,595	11,989	8,739	9,822	9,805	9,838	9,812	9,817
Metering Renewal	-	-	-	-	-	4,455	2,561	1,950	2,266	2,219
Sub-Total	42,639	43,816	54,942	30,478	32,048	43,296	44,012	40,191	39,436	40,474
System Service										
Capacity Upgrades	3,186	6,050	14,423	13,070	22,140	19,791	9,717	14,577	17,799	13,964
Stations Enhancements	219	1	14	3	21	905	459	459	459	459
Distribution Enhancements	12,715	11,805	6,108	5,931	6,165	2,614	13,636	5,981	4,597	4,796
Grid Technology	1,306	6,098	8,243	5,907	2,021	2,847	4,006	2,819	1,799	4,179
Metering	357	890	1,013	939	1,031	501	501	501	501	501
Sub-Total	17,783	24,844	29,801	25,850	31,378	26,658	28,318	24,337	25,155	23,899
General Plant										
Buildings - Facilities	3,904	18,207	46,658	19,017	453	428	428	403	403	403
Customer Service	1,296	2,275	38	4,676	5,099	2,539	1,616	846	826	1,188
ERP System	3,721	7,309	104	186	679	756	896	1,245	6,554	5,588
Fleet Replacement	2,619	1,584	1,195	562	1,632	6,345	4,526	2,220	1,681	2,008
IT New Initiatives	1,658	651	2,839	1,514	1,115	924	549	609	333	887
IT Life Cycle & Ongoing Enhancer	1,152	858	2,059	871	1,458	1,981	1,411	1,250	1,035	1,664
Operations Initiatives	937	1,327	199	1,227	1,624	1,681	1,572	321	928	477
Tools Replacement	390	442	503	933	450	474	474	462	465	469
Hydro One Payments	4,647	5,647	3,143	6,094	30,070	16,918	210	200	5,130	4,200
Sub-Total	20,323	38,300	56,738	35,080	42,580	32,047	11,681	7,556	17,354	16,884
Miscellaneous										
Total	118,550	137,867	182,330	140,667	159,337	158,694	125,044	109,518	116,407	115,296
Less Renewable Generation Facility Assets and Other Non- Rate-Regulated Utility Assets (input as negative)										
Total	118,550	137,867	182,330	140,667	159,337	158,694	125,044	109,518	116,407	115,296

Notes

¹ Please provide a breakdown of the major components of each capital project undertaken in each year. Please ensure that all projects below the materiality threshold are included in the miscellaneous line. Add more projects as required.

² The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the capital budget in the miscellaneous category.

TO BE UPDATED AT THE DRAFT RATE ORDER STAGE

UPDATED - Appendix 2-AB

Table 2 - Capital Expenditure Summary from Chapter 5 Consolidated Distribution System Plan Filing Requirements

First year of Forecast Period:

2021

	Historical Period (previous plan1 & actual)													Test Years Forecast Period (planned)						
CATEGORY	2016			2017			2018		2019			2020			2021	2022	2023 20	2024	2025	
	Plan	Actual	Var	Plan	Actual	Var	Plan	Actual	Var	Plan	Actual	Var	Plan	Bridge	Var	2021	2022	2023	2024	2025
	\$ '(000	%	\$ '(000	%	\$ '00	Ó	%	\$ '000		%	\$ '000		%	\$ '000				
System Access	38,936	37,805	-2.9%	35,156	30,908	-12.1%	35,132	40,849	16.3%	35,835	49,259	37.5%	36,551	53,331	45.9%	56,693	41,032	37,434	34,462	34,039
System Renewal	38,008	42,639	12.2%	30,047	43,816	45.8%	34,580	54,942	58.9%	34,100	30,478	-10.6%	33,769	32,048	-5.1%	43,296	44,012	40,191	39,436	40,474
System Service	22,585	17,783	-21.3%	35,733	24,844	-30.5%	31,430	29,801	-5.2%	32,353	25,850	-20.1%	35,263	31,378	-11.0%	26,659	28,318	24,337	25,155	23,899
General Plant	45,899	20,323	-55.7%	48,138	38,300	-20.4%	18,276	56,738	210.5%	18,695	35,080	87.6%	13,954	42,580	205.1%	32,047	11,681	7,556	17,354	16,884
TOTAL EXPENDITURE	145,428	118,550	-18.5%	149,074	137,868	-7.5%	119,418	182,330	52.7%	120,983	140,667	16.3%	119,537	159,337	33.3%	158,695	125,043	109,518	116,407	115,296
Capital Contributions	- 23,636	- 19,491	-17.5%	- 23,190	- 17,315	-25.3%	- 22,926	- 16,742	-27.0%	- 23,385	- 24,816	6.1%	- 23,853	- 33,354	39.8%	- 39,232	- 23,493	- 19,943	- 19,226	- 19,264
Net Capital Expenditures	121,794	99,058	-18.7%	125,883	120,552	-4.2%	96,491	165,588	71.6%	97,597	115,851	18.7%	95,685	125,983	31.7%	119,463	101,550	89,575	97,181	96,032
System O&M		\$28,137			\$29,158			\$30,002			\$ 28,556			\$ 33,591		\$32,779				

Notes to the Table:

- 1. Historical "previous plan" data is not required unless a plan has previously been filed. However, use the last OEB-approved, at least on a Total (Capital) Expenditure basis for the last cost of service rebasing year, and the applicant should include their planned budget in each subsequent historical year up to and including the Bridge Year.
- 2. Indicate the number of months of 'actual' data included in the last year of the Historical Period (normally a 'bridge' year):

Explanatory Notes on Variances (complete only if applicable)

Notes on shifts in forecast vs. historical budgets by category

See Section 8.1 of Exhibit 2-4-3: Distribution System Plan

Notes on year over year Plan vs. Actual variances for Total Expenditures

See Section 8.1 of Exhibit 2-4-3: Distribution System Plan

Notes on Plan vs. Actual variance trends for individual expenditure categories

See Section 8.1 of Exhibit 2-4-3: Distribution System Plan



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(By way of this enclosure, Hydro Ottawa is updating the information in section 2.3.3 of Attachment 2-4-3(E): Material Investments, pertaining to the utility's Smart Grid project known as MiGen.

As noted in the cover letter addressed to the OEB Secretary that accompanies the updates to Hydro Ottawa's Application for 2019 actuals, the utility has utilized a specific convention to identify updated evidence. Any updates to Application evidence which incorporate 2019 actuals are marked with a yellow highlight. Any revisions to the original evidence (i.e. corrections) are marked with a highlight as well as strikethrough.

The ensuing updates to section 2.3.3 of Attachment 2-4-3(E): Material Investments represent a lone exception to Hydro Ottawa's use of the strikethrough convention. Herein the use of strikethrough denotes an update. Hydro Ottawa believes that use of this exceptional approach is warranted in this singular instance, in light of the number of updates to the project summary and the need to ensure efficient review of the updated information by parties to this proceeding).

2.3.3. DISTRIBUTION ENHANCEMENT

The Distribution Enhancements Budget Program includes two main programs - The Smart Grid Fund Initiatives and the MiGen Program (formerly known as The GREAT DR V2), as well as other minor Distribution Enhancements projects.

Through this program, Hydro Ottawa's total investment over the 2021-2025 period is \$\frac{\\$12.1M}{2021}\$. In Historical Years, Hydro Ottawa has invested \$\frac{\\$8.9M}{2021}\$. In the 2016-2020 period. Projects covered under this program are discussed in further detail in the following sections.

2.3.3.1. Smart Grid Fund Initiatives

2.3.3.1.1. Project Summary

The Smart Grid Fund Initiatives program is designed to provide a funding stream for a portfolio of innovation initiatives. These innovation initiatives will provide for the enhancement of tools,



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technologies, training, or processes in a system operating context that are core to Hydro Ottawa operations and effectiveness. In addition to having a continued internal funding mechanism, Hydro Ottawa will pursue external innovation funding sources such as provincial and federal governments and non-government organizations (e.g Natural Resources Canada, Ontario Ministry of Energy or Independent Electricity System Operator of Ontario). Having a planned investment level and timing will enhance the planning and execution of innovation projects as staff across the organization will be able to provide input towards a known timeline and funding envelope.

2.3.3.1.2. Project Description

Current Issues

The Smart Grid Fund Initiatives project includes innovative initiatives which are part of Hydro Ottawa's Smart Energy Roadmap - a comprehensive plan developed by a cross-functional team of employees forming Hydro Ottawa's Smart Energy Steering Committee. This committee is primarily a combination of management staff from the Information Technology and Distribution Engineering and Operations divisions. With this cross sectional nature and the active participation from the executive management team, the committee is an effective driver for innovation and improvement.

The Smart Energy Roadmap, is the integrated "whole of company" plan to achieve Hydro Ottawa's Smart Energy vision. This vision is articulated in the company's Strategic Direction 2016-2020, which also offers the following definition of "smart energy": "an energy system that makes effective use of available technologies to maximize consumer, community and environmental benefit. It is sustainable, customer-centric, reliable, cost-effective, secure, and constantly evolving. It is responsive to evolving needs and opportunities, and focused on tangible benefit." The projects under the Smart Grid Fund Initiatives program represent only a subset of the Smart Energy Roadmap initiatives, other initiatives are being undertaken as their own program, or integrated augmentation to existing activities. Some of the initiatives being undertaken as their own program include: Self Healing Grids (Section 4.2.1), AMI outage



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management Integration (Section 4.1.4) and The GREAT-DR v2 the MiGen program (Section 3.3.2).

Project Scope

Projects planned for the 2021-2025 window include:

- Outage Intelligence. The development of the ability to automatically locate and identify the root cause of distribution system faults.
- Outage Analytics. The development of custom reporting and analytics to be available to any and all Hydro Ottawa staff.
- Smart System Planning: Expand and augment the tools and techniques to provide system information to key decision makers in order to support decisions that align to the real condition of the grid.
- Outage Prediction. Machine learning and Artificial intelligence to identify and prevent incipient faults.

Main and Secondary Drivers

The primary drivers of the Smart Grid Fund Initiatives are:

- Reliability: The primary strategic outcome sought by the Smart Energy Roadmap is the target of developing enhanced grid reliability, and service offerings to enable the provision of 100% reliable electrical service.
- Other Performance/Functionality: The second strategic outcome sought by the Smart Energy Roadmap is to Position Hydro Ottawa to provide its customers with proactive and innovative energy solutions which align with our customers' needs, preferences, and objectives. Leveraging innovation and technology to align Hydro Ottawa with both current and future market trends
- System Efficiency: One of the key pillars of the Smart Energy strategy as defined in the roadmap is to leverage existing infrastructure and personnel by seeking opportunities



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that leverage staff's existing knowledge, key competencies, and Hydro Ottawa's physical infrastructure

Performance Targets and Objectives

In selecting specific projects or initiatives to support under the Smart Grid Fund program, the Smart Energy Steering Committee will apply the following criteria:

- Innovation and Technology Initiatives that leverage technology to align with both current and future markets and position Hydro Ottawa to be Best in Class will be supported.
- Reliability and System Resilience Initiatives that assist Hydro Ottawa in moving closer to 100% reliability, by improving customer service continuity measures will be supported.
- Environmental Sustainability Initiatives that serve to reduce environmental impact, supporting Hydro Ottawa and its customer's transitional goal to achieve a net zero carbon future will be supported.
- Revenue Growth and Diversification Initiatives that have the potential to expand current value and revenue streams, while increasing efficiency of Hydro Ottawa's grid will be supported.
- Leveraging Infrastructure and People Initiatives that provide opportunities to leverage existing knowledge, key competencies, and physical infrastructure will be supported.

2.3.3.1.3. Project Justification

Alternatives Evaluation

Alternatives Considered

Alternatives considered for the Smart Grid Fund Portfolio:

- Proceed with proposed Smart Grid Fund investments
- Proceed with a different or curtailed portfolio of investment or
- The 'do-nothing' alternative which would ultimately result in a reduced capacity for



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innovation

Evaluation Criteria

The investment alternatives were evaluated for alignment with the performance objectives listed in Section 3.3.1.2.4. Further evaluation was completed considering support of the System Service criterion of:

- Safety
- Reliability
- Power quality
- System efficiency
- Other performance/functionality

Preferred Alternative

As described in Section 3.3.1.2.3 above, the strategic direction of the Smart Energy Roadmap and the processes that will be used by the Smart Energy Steering Committee to evaluate and specific initiatives to support under the Smart Grid Fund Portfolio align very well to 3 of the above 5 criteria, and the investment portfolio has been prioritized through its impact to performance objectives. It is therefore preferred to proceed with the selected project portfolio.

Given the ongoing initiatives in the 2018 through 2021 time frame (as described under the The GREAT-DR project 9202014255 MiGen program) and the other technology investment projects in flight through the 2021 through 2025 time frame it was decided to create a funding envelope that met the following criteria:

• Timing: The years 2022-2025 contained the least number of complex innovation/technology investment projects therefore these years were chosen for the innovation investments



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 Funding Levels: The years 2022-2025 contained a reduced level of innovation/technology investment, therefore the following investment levels were selected

Table 2.53 - Historical and Future Smart Grid Fund Program (\$'000,000s)

	ŀ	listorica	al	Br	idge	Test					
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Total Expenditure							\$0.50	\$1.01	\$1.05	\$0.93	

Benefits

While the benefits of the individual project initiatives within the program are yet to be completely defined, the process by which the initiatives are selected for funding does take into account the benefits in the following categories.



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Table 2.54 - Project Benefit

Benefits	Description
System Operation Efficiency and Cost Effectiveness	As stated above, one of the key pillars of the Smart Energy strategy as defined in the roadmap is to leverage existing infrastructure and personnel by seeking opportunities that leverage staff's existing knowledge, key competencies, and Hydro Ottawa's physical infrastructure. This leveraging will result in direct improvements to the System Operation efficiency and cost effectiveness. Furthermore, one of the key criteria used to evaluate projects for support is Innovation and Technology.
Customer	The primary strategic outcome sought by the Smart Energy Roadmap is the target of developing enhanced grid reliability, and service offerings to enable the provision of 100% reliable electrical service. The second strategic outcome sought by the Smart Energy Roadmap is to Position Hydro Ottawa as the provider of proactive and innovative energy solutions which are driven by our customers' needs, preferences, and objectives.
Safety	While safety is not a specific criterion that has been called out by the Smart Energy Roadmap, it is expected that safety remains at the core of all Hydro Ottawa projects and as such initiatives the further enhance the safety of customers and staff will be given priority.
Cyber-Security, Privacy	While cyber-security is not a specific criterion that has been called out by the Smart Energy Roadmap, it is expected to be a factor in the evaluation of the initiatives alignment to the Innovation and Technology criteria.
Coordination, Interoperability	N/A
Economic Development	Initiatives that have the potential to expand current value and revenue streams, while increasing efficiency of Hydro Ottawa's grid will be supported, therefore there is a significant potential for the development of new business within the Hydro Ottawa group of companies or through partnerships with other utilities and 3 rd parties.
Environment	Initiatives that serve to reduce environmental impact, supporting Hydro Ottawa and its customer's transition to a net zero carbon future will be supported



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2.3.3.1.4. Prioritization

Consequence of Deferral

The Smart Grid Fund Program is intended to foster and support innovation and improvement within Hydro Ottawa. Deferral of the creation of the Smart Grid Fund program could result in missed or delayed opportunities for innovation, improvement, or 3rd party funding support.

Priority

Based upon the issues described in section 2.1, and potential benefits described in section 3.3; this program is considered a Medium priority.

2.3.3.1.5. Execution Path

Implementation Plan

The implementation plan for the Smart Grid Fund program is based on a governance model as provided by the Smart Energy Steering Committee. This includes an intake process for innovation ideas and proposals and evaluation criteria that is articulated in the Smart Energy Roadmap document. Through the 2021-2025 window Hydro Ottawa will undertake to:

- Outage Intelligence. The development of the ability to automatically locate and identify
 the root cause of distribution system faults. Investing in models to leverage existing, and
 newly available data to respond to system outages.
- Outage Analytics. The development of custom reporting and analytics to be available to any and all Hydro Ottawa staff.
- Smart System Planning: Tools and techniques to provide system information to key
 decision makers in order to support decisions that align to the real condition of the grid.
 Dissemination of asset data in real time, and forecasting system loads in local
 neighborhood levels.
- Outage Prediction. Machine learning and Artificial intelligence to identify and prevent incipient faults.

The individual projects will be evaluated and prioritized according to impact, timing, and budget.



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Risks to Completion and Risk Mitigation Strategies

As the Smart Grid Fund program contains many initiatives, there is little risk to execution of the overall program. Projects and initiatives can be exchanged or re-prioritized based on the issues or constraints discovered.

Timing Factors

There are essentially two elements that could affect the timing of the investments under the Smart Grid Fund Program.

- Availability of external funding: There is a potential that the funding available requires the adjustment of the internal investment profile.
- Availability of staff: As with any project execution, internal resources are critical in order
 to ensure success. Innovation projects have the potential of being deferred in order to
 support programs and projects that are considered essential to Hydro Ottawa.

Cost Factors

As with any innovation portfolio, there is a possibility that the technology aspects of the initiative proeve to be more complex and therefore costly than originally anticipated. The mitigation strategy is to secure external funding so that the risk is shared across multiple sources of funds.

Other Factors

As with any innovation portfolio there is the potential of new technology developments or regulatory constraints that could affect the overall execution of the program. However, as there are several candidate initiatives under the Smart Grid Fund Program, the potential of failure is significantly reduced.



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2.3.3.1.6. Renewable Energy Generation (if applicable)

N/A

2.3.3.1.7. Leave-To-Construct (if applicable)

N/A

3.3.1.8. Project Details and Justification

Table 2.55 - Project Benefit

Project Name:	Smart Grid Fund Initiatives
Capital Cost:	\$3.49M
O&M:	TBD
Start Date:	1-Jan-2022
In-Service Date:	Multiple
Investment Category:	System Service
Main Driver:	Reliability
Secondary Driver(s):	System Efficiency and Other Performance objectives
Customer/Load Attachment	All customers

Project Scope

The scope of initiatives that will be supported under this portfolio will be determined according to Hydro Ottawa's Smart Energy Roadmap that has been prepared by a cross-functional team of employees known as the Smart Energy Steering Committee. This committee is focused on developing a strategy for innovation and process improvement within the utility operations in order to improve both efficiency and effectiveness

Work Plan

The planned initiatives will be executed in the windows listed below.

- Outage Intelligence (2022-2023)
- Outage Analytics (2021-2022)
- Smart System Planning(2023-2025)
- Outage Prediction (2025)

Customer Impact

The primary strategic outcome sought by the Smart Energy Roadmap is the target of developing enhanced grid reliability, and service offerings to enable the provision of 100% reliable electrical service.

The second strategic outcome sought by the Smart Energy Roadmap is to position Hydro Ottawa as the provider of proactive and innovative energy solutions which are driven by our customers' needs, preferences, and objectives.



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2.3.3.2. MiGen Program (formerly known as The Grid Edge Active Transactional Demand Response 2.0) (The GREAT-DR v2, currently known as "MiGen")

2.3.3.2.1. Project Summary

MiGen was formerly known as The Grid Edge Active Transactional Demand Response 2.0 project (abbreviated as The GREAT-DR v2, or TGDR2). This program consists of projects that enable and empower customers to participate in a smart transactive energy future. These projects will focus on resolving the There are many stressors on the electricity grid including cost, grid management, climate change, and electrification, while delivering customer centric solutions with behind the meter technologies. Projects may be initiated by Hydro Ottawa or third parties with which Hydro Ottawa is a collaborator.——and meeting increasing customer expectations for more autonomy.

To evolve and enhance the electricity system, the MiGen program The GREAT-DR v2 (TGDR2) project—was created to address these stressors for the stakeholders. A previous project under MiGen was The GREAT-DR. The GREAT-DR sought to optimize existing distribution, transmission and centralized generation infrastructure by managing supply-demand locally and trickle the benefit upstream. with an open source, worldwide royalty free interoperable solution platform in place of the standard costly one outcome wires solution. This end-to-end interoperable platform and by design adheres to Privacy-by-Design, best cybersecurity practices and interoperability. The architecture is hierarchical to serve from the market operator to the prosumer at the edge, and is largely decentralized in grid management for visibility, autonomy, resiliency and scalability. The GREAT-DR largely consists of smart software solutions with physical hardware for monitoring, computing and communicating.

The Lessons Learned from this early project will be used to guide future MiGen projects with the goals of:

- 1) Focusing on behind the meter technology
- 2) Developing partnerships, collaborations with vendors and stakeholders



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3) Supporting the adoption of technology by the utility and its customers

The GREAT-DR effect on the grid is to optimize existing distribution, transmission and centralized generation infrastructure by managing supply-demand locally. This will thus enable:

- (1) Customer loads to follow supply of GHG-free electricity sources and minimize need for new fossil generation;
- (2) Grids to optimize utilization to their dynamic capacity (not just the lower set planning limit), minimizing need for costly infrastructure upgrades;
- (3) DERs to effectively integrate to the grid; and
- (4) Markets that encourage prosumers to automatically bid their DERs into the grid and trade with others.

This will be done by establishing premise, local, zonal and grid level DER management while providing a Transactive Energy Market (TEM) that compensates participating prosumers.

The project will establish DERs at community housing complexes and private residences in the Ottawa-area and demonstrate the solution through 2020 at approximately 200 customer premises.

2.3.3.2.2. Project Description

Overall, the MiGen program will help evolve the grid from being load-following to supply-following. The projects may also manage the balance across prosumers to support and help enable Net Zero Carbon Communities, and accelerate electrification (transportation and heating) required to meet economic and climate change goals by ensuring existing grid infrastructure can accommodate load growth.



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Current Issues

There are several stakeholders in the electric utility industry, and each has issues that are unique, yet while also sharing some and also similar issues. The current major issues are:

1) Grid Management Constraints

Ability for the Factors affecting market operator and local distribution company to optimize optimization of grid management (planning, investing and operating) is limited by the are level of grid visibility, control, and ability to act (personnel plus systems resources). Spinning reserve, lower asset loading, and single contingency are examples of costly idle buffer capacity to cover for comfortable margins of error. Also, provincial demand response has addressed the provincial peak for reasons largely to balance supply to demand. However, peak loading of any distribution system asset is very much likely not coincident to another asset or the provincial peak.

Another constraint is that In addition, many utility grid management tools are not interoperable and that can lead to increased cost pressure and stranding of assets if the asset cannot keep up to the required functionality.

The GREAT-DR will provide grid edge level very near real time visibility to the utility and market operator for optimal planning and operation, plus control of loads and sources that can aggregate to meaningfully benefit grid loading, quality and stability.

2) Social

Customers are seeking more autonomy, personalized service, or more control of their usage and thus the amount of their bill. Time-of-Use rates have helped move off the traditional provincial peak, but the peak has shifted because of more dispersed generation and change in customer behaviour. However, the system peak is not the same across the transmission planning zones, the utilities within these zones, or neighbourhoods within a utility service area, so the challenge is in socializing customers to local constraints too without confusing or



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overburdening them. Also, customers vary in their want (behaviour) or ability (demographic, tool or premise constraints) to participate in energy reduction or load offset activities.

MiGen will seek to support the deployment of technologies and tools to the customer premise in order to help the customer and utility collaborate in the effective management of their electrical and utility loads. The GREAT-DR democratizes the grid and provides benefits to all stakeholders, including those living in community housing. By managing at the edge and scaling to hundreds of thousands of customers, shoring of the grid can be shared across all prosumer types and amongst more variety of meaningful loads and energy sources at the edge. Transactive Demand Response over a larger prosumer base would reduce the reliance, or burden, on few participants and increase probability of achieving grid shoring targets. By actively managing the loads and sources to the dynamic asset capacity rating, the The customer benefits with greater ability to electrify more, connect more green energy sources, and storage, plus will benefit from the increased utilization of their and the utility's existing assets. Added social benefit is the fact that The GREAT-DR is built on the three pillars of Privacy-by-Design, cybersecurity, and Interoperability.

3) Economic:

Economically, the bottom line An important consideration for a customer is their electricity bill and fees imposed to meet interconnection requirements when adding more load or energy sources within their premise, including service entrance upgrades if needed.

Present rate structures are not conducive to non-incented introduction of dispersed generation or energy storage. However, tools for the customer to manage their bill under a fixed load contract or critical peak pricing structure, or even to have or take advantage of a Transactive Energy Market are not mature. Grossly breaking down the rate structure into the commodity and delivery components, it is the latter that the utility can influence through its investment and management of the grid.



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Under the MiGen program, projects The GREAT-DR, as a tool, will help create optional rate structures for prosumers, similar to mortgage structure options, which are suitable for the type of participation they want in the grid. Also, by providing a more feasible non-wires solution, the projects—The GREAT-DR can help utilities reduce spending on bulking up the grid assets and save money or refocus on under met reliability needs. Because of the interoperability requirements of the GREAT-DR, there is a higher likelihood of not-stranding grid-supporting assets. Other economic benefits come from: the ability to allow higher penetrations of electrified loads and sources.; greater competitiveness in provision of The GREAT-DR shore supporting devices because of the open source, worldwide royalty free platform, and it will allow; compensation of prosumers for helping shore the grid, through establishing a Transactive energy market that also allows prosumers to trade energy amongst themselves; lower commodity prices since The GREAT-DR machine learning will allow the market operator to forecast and predict better, and rely on other methods of providing least cost of service; provision of ability to improve reliability by autonomously managing energy source interconnection set-points adhering to the IEEE 1547-2018 generation interconnection standard i.e., ride through transient aberrations in the grid, plus help in restoring service quicker by allowing generation to offset load and provide for more than an N-1 contingence, including sustainment of an isolated micro-grid.

4) Environmental

The environmental issues reflect physical, social and economic implications. Climate change can radically change the asset dynamic loading capacity, and can create transient aberrations or longer term disruptions to electrical service. Customers are increasingly concerned about their impact on the environment and policy makers are following suit to transition, for example, to net-zero carbon (NZC) buildings and homes.

Overall, The GREAT-DR will help evolve the grid from being load-following to supply-following.

The GREAT-DR, by dynamically managing loads and energy sources at the grid edge, will help reduce reliance on fossil fuel peaking plants to mitigate intermittence of green sources or a bit



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longer peaking periods. It can also manage the balance across prosumers to achieve Net Zero Carbon Communities, and accelerate electrification (transportation and heating) required to meet climate change goals by ensuring existing grid infrastructure can accommodate load growth.

Project Scope

This is a project that will demonstrate an alternative to the wires and centralized generation solution for growing electrical load, plus a least-cost-of-service option for shoring the grid.

The GREAT-DR v2 (which has more recently been re-branded as "MiGen") will span approximately three years from Nov. 20/'18, to Mar. 31/'22 under the NRCan Smart Grid Fund, and will extend an additional five years for monitoring performance. Hydro Ottawa will own the assets and be responsible for such for the duration of its useful life. These assets include a mix of solar PV, smart inverter types, battery energy or thermal storage systems, air-source heat pumps, smart thermostats and load control modules, plus The GREAT-DR elements and subscribed requisite software supporting systems, such as the software for machine learning, Transactive Energy Market, Back Office System, customer loyalty and settlement, and user GUI.

The GREAT-DR solution platform will be standards based and remain an open source, worldwide royalty free platform is pillared by Privacy-by-Design, best cybersecurity practices, and interoperability principles. The IEEE 2030.5 standard is the foundation for interoperability. Through IEEE, not-for-profit worldwide organisation that advanced technology for the benefit of humanity, Hydro Ottawa and its partners will inform the standard roadmap and certification assessment program. IEEE will host and protect The GREAT-DR within its Open Source Community.

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^{*}Natural Resources Canada ("NRCan") is a critical partner for this project. At the time of writing, in response to expressions of interest from NRCan itself, Hydro Ottawa is engaged in detailed discussions with NRCan regarding the lessons learned from the initial phase of the project and how these lessons can be incorporated into the next phase. Through this engagement, NRCan has signalled openness to adjusting the parameters of the project, if it can be demonstrated that such adjustments will add value and ensure that the broader objectives of both the project and NRCan's funding program will be met. Depending upon the outcome of further discussions with NRCan, Hydro Ottawa may subsequently submit updates to the project information included in this Application.



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An outcome of The GREAT-DR platform will be a template strategy for achieving a Net-Zero Carbon Community (NZCC) community overlaid with market-driven Transactive Demand Response (TDR) solution that optimizes energy sources and loads in real-time for an overall smart energy network (TGDR2) and encourages prosumer behaviour change. Thus, it will be used to:

- i) engage and educate participating customers and others towards becoming prosumers,
- ii) directly connect prosumers with the system and market operator through a Transactive Energy [shadow] Market (TEM) and compensate them for savings they provide the utility and bulk system, and
- iii) engage the regulator, market operator, and governments for informing policy and program development.

TGDR2 will manage DERs in real-time within the grid's dynamic operating limits through automatic and active negotiation between devices that use or produce electricity at the customer-level. This is through:

- i) at the premise-level, a home energy management system controller (HEMS-C) and customer agent (CA),
- ii) at the local (i.e., neighbourhood) and zonal-level through transactive / transformer agents (TA), and
- iii) at the grid-level, a back office system (BOS).

The second version of The GREAT-DR platform will be enhanced beyond Technology Readiness Level Five (TRL5) – Demonstration and thus much closer to providing sustained grid benefit. It will be deployed to the participants in the first version, and the 200+ participants in the second version. The participant demographic varies include a variety of age groups, income levels, states of employment, load types and sources, plus personalities.

Main and Secondary Drivers

The main and secondary drivers for The GREAT-DR (currently known as "MiGen") follow.



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Proprietary and Non-interoperable Grid Solutions:

There are many solutions for Demand Response and though they may have some interoperability features, they are not truly interoperable because of selectivity from within a standard and proprietary additional layers. This situation handcuffs the adopting utility to, for example, a specific product development roadmap, vendor's service or product line, and ongoing fees. Also, few solutions have been developed with the utility full spectrum need in mind. The utility should demand systems used in the management of the grid to be interoperable, but can only do so if there is a common rule book to follow i.e., IEEE2030.5, and platform to plug into i.e., The GREAT-DR.

Poor Resiliency from Centralized Systems:

There are other parties attempting a Transactive Demand Response platform, however, development is in infancy and not gaining interest for three reasons: relying on a centralized architecture, being proprietary, and lax on customer privacy. A data heavy, centralized system is inherently costly in infrastructure, more latent, plus lower in performance and wider in affected service area when parts of the central system fail.

Sole Purpose Solutions:

The many behind-the-meter technology management devices serve a single purpose, like thermostats for temperature, load controllers for on/off of medium or large loads, solar inverters for generation output, and battery systems for absorbing or sourcing energy. For a utility to interact with each of these devices individually is impractical, and non-optimal. An intelligent device that can manage each and be the contact to the grid is ideal. The GREAT-DR Home Energy Management System Controller element would be the interface that smartly coordinates management of these technologies.

Fear of Overwhelming Data Management and Communications:



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Data from behind-the-meter devices have been seen as a treasure, and the overhead, security and privacy concerns of funnelling all that data to a centralized location for processing and storing has typically been ignored. True, the speed and cost of managing big data is improving, but the other problems remain. A data governance model for defining the necessary data, handling and storage in a hierarchical, decentralized system can overcome these problems. TGDR ensures an efficient, secure and open-format data management. As a result, the project right-sizes data exchange (2-4kB files), ensures privacy, and establishes a cyber-secure firewall between prosumers and the grid (both in terms of its depth and breadth). Predictive analytics forecasts when DER support is needed.

Supervision-Intense:

The system operator, grid planner and prosumers are overtaxed with tasks and data. For the utility, it's becoming increasingly complex to decipher, forecast or predict the load profile, prepare work plans, restore power, and determine infrastructure needs because of the radical dynamics in the grid caused by intermittent or dispersed generation, micro-grids, mobile loads, and energy storage. For the customer, it's becoming increasingly complex to adapt to changing messaging regarding grid needs (energy conservation or demand reduction), and stay diligent in complying so they can reduce their bill. These issues will become increasingly difficult with higher penetrations and introduction of Transactive Demand Response, unless the data is streamlined, and the activities more automated, as is being done with The GREAT-DR. As an example, without automation and machine learning of The GREAT-DR, the utility's management of the set-points per the new generation interconnection standard IEEE 1547-2018 as the grid feeder connection (normally open point) changes, and a planner's ability to know an asset's real loading becomes intensely laborious, prone to error and nevertheless costly.

Complex Integration & Management of New Technologies:

Utility and prosumer integration and management of new technologies is complex to assess and because of lack of good tools and skill, penetration levels are constrained, interconnections costly, and management complex as explained herein.



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Microgrids: TGDR negotiates to optimize load-source-infrastructure balance where renewables, storage and load control exists in reasonable proportion. It will control fuel-source optimization, for example between a fossil fuel and electricity. It can be used to interact with ant tertiary controllers for a microgrid.

Energy Storage: TGDR2 will strategically use TRL5+ battery and thermal storage technology to increase power and other energy system flexibility as an integrated solution, and will prove stacked value.

Distributed Energy Resource Management (DERM): our approach will integrate behind-the-meter customer energy loads and sources into the grid. Optimization decisions dispatch, storage, and on best fuel source will be made at the customer level using system-level information. The back office system contemplated as part of this project is an innovative DERMS.

EV integration: TGDR2 treats EVs as watts and nega-watts for Vehicle-on-Grid (VoG) management. Thus, the intent is to manage EV charging within electrical service constraints to avoid service upgrades still providing for customer-centric charging.

Forgetting the Customer:

Customers are no longer just complaining about their electricity bill or concerned about the environment, they want to act. When they purchase an EV, generation or storage system they expect simple, non-costly interconnection service from the utility, and the best return. Also, when Demand Response strategies are adopted, they want their comfort, privacy and no complexity, and final say. Customers in effect are becoming prosumers, and their satisfaction can be improved by involving them to the extent they wish, in helping reduce their bill with minimal effort on their part. TGDR includes a novel approach to engage them and encourage participation in shoring the grid through an automated approach that considers their



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preferences, keeps their activity private and secure, provides feedback, and is powered by voice assistance. The prosumers will be rewarded for their contribution to shoring the grid. Using a tier prosumer classification approach, different awareness strategies can be used to educate or encourage prosumers in their energy use.

Performance Targets and Objectives

The targets to achieve with TGDR are:

- 1. To have 90%+ participant satisfaction.
- 2. To demonstrate the economic benefit to the ISO, DSO and prosumer in helping shore the grid using The CREAT-DR.
- 3. To be able to offset at least on average of 2kW of coincident load on a neighbourhood transformer for each participating premise.
- 4. To have a Transactive Demand Response activity issued and acted upon, in non-emergency cases, and targets achieved within five minutes; in emergency cases, to do so within 30 sec.
- 5. To demonstrate how generation can help restoration efforts and not remain off until five minutes have passed after restoration.

2.3.3.2.3. Project Justification

Alternatives Evaluation

Alternatives Considered

Alternatives considered for the MiGen program:

Purchase of DERMS system: these are centralized back-office systems that can indirectly control dispersed generation assets. However, they are complex, highly dependent on accurate grid modeling and data mapping, plus costly to implement and maintain. Also, they do not



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involve the customer as a prosumer and add-on equipment, modules or services are likely restricted to OEM-only options.

Increasing grid asset capacity: commonly referred to as "the wires solution," this is a relatively simple, traditional though costly solution. Decisions on increasing grid infrastructure capacity are typically made when peaking is just even a few hours a season because of poor grid visibility, data analytics, or alternative tools for mitigating relatively short loading periods. The ramifications of increasing distribution transformer size at the edge trickles upstream and translates to requirement for increasing capacity of cabling, wiring, duct bank sizes, pole classes, switching equipment, station transformation, and so on. Money saved could better be left as saved if not spent to address reliability.

Adopt proprietary non-interoperable interfaces: there are vendors that offer demand or energy management systems, and if they have an interface for utility oversight or management, their solutions require their own proprietary - and largely non-interoperable or transparent -- interfaces with the utility. These systems only work with certain consumer behind-the-meter devices sold from or aligned with the same OEM. It would be costly and complex for a utility to manage an interface per OEM or even align to one OEM; customers will want choice and not accept imposition of what to procure and from whom. The goal of the MiGen program is to work towards to encept behind TGDR is to have one interface for the utility and customer, and same rules for the OEMs to follow if they want their products or services to interact with the grid.

Do-Nothing: potentially costly – to the customer -- generation, storage or electrified load interconnection, and costly accommodation for the utility. Doing nothing can prematurely age assets and lead to worsening reliability. It will also reduce penetration of electrified loads, generation or storage. Also, there won't be a feasible way to manage inverter connected generation under IEEE 1547-2018.



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Preferred option: To invest in technologies and initiatives that enhance the collaboration between the utility and customer.other than TGDR, it is increasing grid asset capacity, though costlier it provides for customer choice and simplicity for the utility.

Evaluation Criteria

A detailed quantitative evaluation criteria of the following factors will be used to assess each of the projects undertaken by the MiGen program:

- Performance
- Benefits
- Economic
- Environmental

The evaluation criteria will be used for comparing alternatives during front-end engineering evaluations and, more importantly, during the demonstration phase of the project.

Provide a description of evaluation criteria that were used to compare alternatives.

The evaluation criterion for comparing alternatives at this project demonstration phase is qualitative. During the third year of the three-year demonstration project, a qualitative assessment will be more meaningful.

Preferred Alternative

The preferred alternative is for Hydro Ottawa to invest in technologies and interfaces to devices (loads and sources) behind the meter so that as a utility we can attempt to bridge the gap between the utility companies and the customer.

The preferred alternative to The GREAT-DR solution is simply defaulting to increasing grid asset capacity. Assessment of this project using traditional asset management investment tools are not suitable as The GREAT-DR project is a novel demonstration project at this time to learn and provide the industry an alternative to other non-ideal solutions, including an alternative to the "preferred alternative" selected here. The strong potential upside benefit to all the stakeholders



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should justify this trial. The lessons learned will provide the necessary information for traditional asset investment evaluation methods.

Project Timing & Expenditure

Hydro Ottawa has cultivated prior experience and success in supporting this type of innovation. Hydro Ottawa team would be deploying an updated methodology, one that has been tuned for higher performance by the lessons learned from previous projects.

As one can see from the investment profile that is included below in the table, the initiatives will begin in the year 2021 where we will be gathering the team and collaborators, as well as planning for the next upcoming years. The execution year will be 2022, during which the utility will be deploying, gathering data and adjusting prior to full release of a potential platform. Maintenance costs and service licensing of \$750,000 are spread evenly across for 2023-2025. Despite many challenges, for the first version of The GREAT-DR, Hydro Ottawa recruited 13 participants, plus kept its expenditure commitment to within 2% of budget. The first TGDR platform was partially funded by the Ontario Smart Grid Fund (OSGF) and the LDC Tomorrow Fund. Hydro Ottawa's proposal was to demonstrate the platform using five computers mimicking five different customers. Instead the OSCF asked if Hydro Ottawa could demonstrate with up to 30 real participants. Without additional funding to cover behind-the-meter installations, Hydro Ottawa was able to secure partners that provided greatly discounted products and services, and provided the discounted package for Participants. Prospective participant interest was high and oversubscribed; however, project conditions (e.g., roof condition & orientation; electrical service; interest of others connected to the same distribution transformer, load variety, etc.) ruled any out, and political climate leading up to the provincial elections complicated and hindered recruitment.

In the second year of this three-year demonstration project, additional to the technical assessment for TGDR, Hydro Ottawa will conduct a comprehensive economic and social assessment versus alternative solutions.



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Cost on MiGen-TGDR2 is being mitigated by:

- Applying for funding from other sources.
- Requiring collaborating partners to "have skin in the game" by: providing products and services at or below most preferred customer pricing; agreeing, where reasonable, to fixed paid budget; providing in-kind support to cover risk that may arise during execution of their role.
- Planning heavily upfront in the project execution process and managing the project professionally throughout the timeline.

Table 2.56 - AS ORIGINALLY SUBMITTED - Historical and Future Expenditure Levels (\$'000,000s)

		Historica		Brid	dge			Test		
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Expenditure (Gross)				\$1.07	\$1.48	\$4.65	\$1.01			
Capital Contribution					\$(2.68)	\$(3.08)	\$(1.98)			
Contributed Plant					\$1.50	\$1.06	\$0.25			
Expenditure (Net)				\$1.07	\$0.31	\$2.63	\$(0.71)			
Total Expenditure				\$1.07	\$0.31	\$2.63	\$(0.71)			

Table 2.56 - UPDATED FOR 2019 ACTUALS - Historical and Future Expenditure Levels (\$'000,000s)

		Historical 2016 2017 2018			Bridge			Test			
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Total Expenditure						\$0.31	\$1.91				



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Table 2.57- Program Benefits

Benefits	Description
Dononio	Since MiGenTGDR (currently known as "MiGen") provides benefits to the Prosumer, utility and market operator, the cost is also spread across these stakeholders and makes it more affordable to each. Unlike traditional solutions, MiGenTGDR offsets costs for each stakeholder.
System	System Operating Efficiency: helping restoration by semi-autonomously staggering large load pick-up versus having the system operator concerned with avoiding cold or hot load pick-up; allowing energy sources to reduce load whereby in the past sources were kept off until five minutes after the grid was stable; providing better visibility into the grid and, through machine learning, better forecasting and predicting of load shape so better dispatching of central generation.
Operation Efficiency and Cost Effectiveness	get for key performance: the ultimate objective is to support the five-minute market as a referencies, and within 30seconds in a grid emergency; TDR requests are met 75% of a in the first call. Other efficiencies come from utilities being able to use TGDR as a cost e tool for managing inverters per IEEE1547-2018. **GetCores of the meter technology Developing partnerships, collaborations with vendors and stakeholders Supporting the adoption of technology by the utility and its customers for the customer Sharing in the value from helping shore the grid. So, when prosumers help the grid, they receive benefit through a loyalty program and settlement program that's tied to a Transactive Energy Market. The activity is conducted automatically with minimal prosumer involvement beyond setting preferences on how their assets can be used. Deferring or avoiding service entrance upgrades when adding more electrified loads or sources.
	Set-targets for key performance: the ultimate objective is to support the five-minute market as a preferred method for providing least cost of service. This means that a Transactive Demand Response (TDR) request needs to be acted upon by a prosumer device within five minutes in non-grid emergencies, and within 30seconds in a grid emergency; TDR requests are met 75% of the time in the first call. Other efficiencies come from utilities being able to use TGDR as a cost effective tool for managing inverters per IEEE1547-2018.
Customer	 MiGenTGDR2 offers many values to a prosumer, namely by: Focusing on behind the meter technology Developing partnerships, collaborations with vendors and stakeholders Supporting the adoption of technology by the utility and its customers for the customer Sharing in the value from helping shore the grid. So, when prosumers help the grid, they receive benefit through a loyalty program and settlement program that's tied to a Transactive Energy Market. The activity is conducted automatically with minimal prosumer involvement beyond setting preferences on how their assets can be used. Deferring or avoiding service entrance upgrades when adding more electrified loads or sources. Containing or reducing energy source interconnection costs related to monitoring and protection & control. Trading opportunity, though utility or aggregator mediation, to trade energy with others. Improving more timely visibility and analysis of their energy use and production. Increasing autonomy with how and when they can meet grid needs so comfort is maintained. Increased reliability as energy sources can help more quickly restore service and sources that are IEEE1547-2018 complaint can be used to avoid outages stemming from transient aberrations in the grid. MiGenTGDR2 also helps the customer rate base monetarily or through improved reliability when
	respectively used to defer investment in increasing grid capacity, or shifting that investment to reliability improvement projects.



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Benefits (Cont'd)	Description (Cont'd)
Safety	A practical assessment on how MiGenTGDR may help health and safety protections and performance will be completed in the third year of the demonstration. Anecdotally, TGDR should help prescribe when energy sources can generate while crews are working on the grid.
	MiGenTGDR follows Privacy-by-Design principles and will follow or exceed best cyber-security standards, period. TGDR is based on the IEEE 2030.5 interoperability standard, and the inverter based generation
Cyber-Security, Privacy	shall comply with IEEE1547-2018 interconnection standard. Communications will employ a WiFi mesh based on IEEE standards. The lessons learned through the TGDR demonstration project have been, and will continue to be, used for informing the standards roadmaps and updates. Members of TGDR are on the DOE sponsored IEEE2030.5 roadmap, and the IEEE Conformity and Assessment Program (for certifying against the standard) committees.
	The TGDR hardware elements are certified before installation: the Transformer/Transactive Agent (TA) is utility O.Reg. 22/04 compliant; the Customer Agent (CA) and the Home Energy Management System Controller (HEMSC) are both field certified by ESAFE to be CSA approved.
	MiGen would be looking at all of the following standards in order to ensure proper interoperability. Ie. IEEE2030.5, DNP3, OpenADR, OpenFMB, or Sunspec. If applicable, please explain how the investment applies recognized standards, referencing co-ordination with utilities, regional planning, and/or links with 3rd party providers and/or industry.
Coordination, Interoperability	In addition to the commentary under "Cyber-Security, Privacy," the IEEE2030.5 is a standard that applies from the Market System Operator to the Prosumer. Other interoperability standards like DNP3, OpenADR, OpenFMB, or Sunspec are specific to the utility, customer or a product and not broadly i.e., end-to-end, applicable as IEEE2030.5 and not nearly as comprehensive either.
	The essentials of TGDR will be available to the public as an open source, worldwide royalty free platform. This is to encourage adoption by all stakeholder groups, and through this demonstration, the partners will be the pioneers. Hydro Ottawa is gaining interest in the platform from other vendors, the IESO, and other utilities. Part of its mandate under the funding agreement is to disseminate information on TGDR and build the ecosystem for it to succeed.
Economic Development	If applicable, please describe the effect of the investment on Ontario economic growth and job creation. The demonstration is taking place in Ontario and many of the partners are from Ontario. The benefits with operating MiGenTGDR will remain in Ontario.
Environment	If applicable, please describe the effect of the investment on the use of clean technology, conservation and more efficient use of existing technologies. The MiGen programTGDR demonstration will show how smart management of green generation, battery and thermal storage, increase in electrified loads and load control can help communities achieve Net-Zero Carbon status and maintain it through changes on the prosumer side. MiGenTGDR will also demonstrate how it can provide "least cost of service" for the market operator and help offset costly – environmentally and monetarily fossil fuel peaking plants.



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2.3.3.2.4. Prioritization

Consequences of Deferral

Deferral of this project first and foremost jeopardises funding from NRCan. Secondly, deferral will place the utility in a precarious position with generators complying with IEEE 1547-2018. The utility will be able to request set-points in the inverter, however, will not have the appropriate tools for confirming continued compliance, or changing the set-points dynamically to changing feeder conditions.

The demonstration project will provide data for addressing the consequences / risks in the remaining categories.

Priority

MiGenTGDR is a high priority in context to other grid modernization demonstration projects. Funding and resourcing for projects in the DSP are constantly under pressure and a remedy is needed that breaks traditional approach to solving grid growth and reliability, plus management of the grid by system operations and asset planning. MiGenTGDR is for demonstration and not an immediate replacement solution to a project in the DSP; however, it has the great potential to be, and this demonstration must be undertaken to provide the results, knowledge and experience for application.

2.3.3.2.5. Execution Path

Implementation Plan

The project, where possible, work with partners such as developers, Ottawa-area community housing authorities, and individual residents—will work with Ottawa-area community housing authorities (who this consortium considers to be ideal benefactors of this funded project), to embed Distributed Energy Resources (DERs) into their premises and bring them towards Net-Zero Carbon Community (NZCC) status and maintaining such. For the utility systems, this project will work with device and technology manufactures in developing or adapting technologies for use in the behind the meter applications.



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To enhance and scale TGDR responsibly, the project will be managed in three overlapping phases:

- Phase-I: starting in Q2-2019, begin retrofitting a community with CA+HEMS-C, solar PV, smart inverter, battery energy storage, air-source heat-pump with thermal storage, and HEMS (smart thermostat, load controllers). If funding becomes available through other sources, we would propose adding smart lighting, and smart appliances (i.e., fridge and dryer). TGDR1 and TGDR2 will be demonstrated here, when proven with existing participants in TGDR1.
- Phase-II: starting Q2-2020, the software modules interfacing with TGDR will begin stand-alone testing in the lab. By Q2-2021, the software modules would have been interfaced with TGDR and tested before full deployment in the test communities.
- Phase-III: starting Q3-2021, after having designed and installed DERs into a second community, TGDR2 will be ready for full scale demonstration, strategizing use for achieving and maintaining a near-NZCC, running use cases, monitoring results, tweaking for enhancement, reporting and closing out the project.



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Risks to Completion and Risk Mitigation Strategies

Table 2.58 - Risk to Completion & Risk Mitigation Strategies

Type of Risk (Choose an	item.²)	Mitigating Measures / Estimate Like (Choose an item. ³)	elihood	Residual Risk to Project
Large complex project with many partners that may go over budget or be delayed.	Financial	Establish rigorous utility project governance with a steering committee and a dedicated project manager along with a Project Management Office to manage the partners and their individual workstream. Create fixed budget with developers, devote great effort in the SOW, Gantt, and collaboration agreements with the partners	Medium	While project risk will be reduced with an established project management office established, there will still be some residual project risk due to unforeseen circumstances from factors not in our control (i.e., regulatory, political, economic, trial site owner issues).
As there are many elements in the TGDR2, full interoperability amongst project elements may not be achieved.	Market, Technical	TGDR2 has selected a well-defined industry standard as the interoperability approach (IEEE 2030.5). As this is well-defined, the partners will be including this in the product development.	Low	Product partners are committed to IEEE2030.5 to ensure interoperability. The standards expert on the project is engaging with others to identify the critical elements for interoperable interfaces.
Customers may be uninterested in participating in the TEM.	Market	Project includes professional resources to engage and educate participants in the TGDR2 and TEM. These resources will develop materials to inform customers upfront. The TEM will be made attractive for participants by stacking the value from all sources (i.e. utility, market, carbon, other participants). There will also be ongoing engagement through Algonquin College in communications, real-time monitoring and satisfaction survey tracking.	Medium	The Loyalty program is intended to help increase prosumer participation. Also, autonomous operation of TGDR once prosumer preferences are set should improve their acceptance of TGDR as a non-burdensome and rewarding system. The TGDR Team will also engage with the prosumers in the trial to inform and motivate them.

² Financial – e.g. project funding issues; Market – e.g. market environment, product entry; Technical – e.g. equipment failure; Regulatory – e.g. environmental approvals, permitting issues; Personnel.

³ Likelihood – Low – unlikely to occur <5%; Medium – moderately likely to occur ~25%; High – very likely to occur > 50%.



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Type of Risk (Choose an (CONT'D)	item.⁴)	Mitigating Measures / Estimate Like (Choose an item. ⁵) (CONT'D)	lihood	Residual Risk to Project (CONT'D)
Many concurrent partner work streams are dependent on each others' milestones.	Technical	The established Project Management Office will manage and track the partner milestones. There are technology milestones associated with establishing the TGDR2 and the TEM, and there are construction milestone associated with installing the DERs at the customer sites The technology milestones and construction milestones can be partially decoupled.	Medium	Should the need arise, if a technology milestone is not be met by a partner, an emulation for the partner segment can be used until ready.
Key resources may change within the partners (e.g. retirement, organizational restructuring).	Personnel	The project has engaged with partners at the highest level and have received commitment from the organization. Should individual resources change, the organization will still be able to retain the knowledge to follow through on their contributions.	Ł ow	There are no planned retirements in the next four years. Documentation and assessment of this risk will be on going.
Other government funding sources may fall through.	Regulatory	There are many funding sources available from federal, provincial and municipal sources along with government agencies and academic grants. Should any one source fall through, the Project Management Office will seek alternative sourcing from another funder.	Medium	Negotiating de-scoping with the primary funder, and any other funder, is an option, though non-ideal.
Engineering challenges and technical issues may arise with components of the TGDR2, TEM and DERs.	Technical	The project will establish a robust solution architecture upfront to ensure the engineered solution is sound and built in an interoperable manner. Once the system is launched, the project will have dedicated resources to monitor the system and respond immediately to any break-fix issues.	Low	Lessons learned from TGDR1 will be very helpful.

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⁴ Financial – e.g. project funding issues; Market – e.g. market environment, product entry; Technical – e.g. equipment failure; Regulatory – e.g. environmental approvals, permitting issues; Personnel.

⁵ Likelihood – Low – unlikely to occur <5%; Medium – moderately likely to occur ~25%; High – very likely to occur > 50%.



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Type of Risk (Choose an (CONT'D)	ı item. ⁶)	Mitigating Measures / Estimate Like (Choose an item. ⁷) (CONT'D)		Residual Risk to Project (CONT'D)
Prices of some of the components of the TGDR2 may increase (i.e. cost of lithium rises, cost of silicone for solar panels rises)	Market	While the prices of project components are expected to decrease over the course of the project, should there be any temporary sharp rise in the cost of any individual component, the Project Management Office will examine pivoting scope to a lower-cost solution.	Medium	De-scoping on quantity is an option. Some products are in USD, and the CDN is forecasted to drop over the project life.
Integration of new software components with existing Hydro Ottawa's Business Support Systems	Technical	Any project outcome may need to connect to existing Hydro-Ottawa systems. Intermediary interfaces may be needed. HOL is already working with interfacing tools already. The TEM, Customer Loyalty, eWallet, BluWave, and Back-Office-System components may need to connect to existing Hydro-Ottawa systems. Some partners have done such integration in other projects. However, TGDR will be designed to rely on field generated information and not secondary handled data, so ties to Hydro Ottawa's systems may be limited or avoided.	Medium	Offline file transfer for seeding machine learning can be done. Emulation may be needed in the worst cases.

Timing Factors

The priority for innovation projects such as MiGen is high due to the potential for future savings and improved performance. However, as with any innovation project involving new technologies and interfaces, the complexity will ultimately dictate how quickly the new technology can be effectively deployed. The priority of this project will remain high unless during development there becomes a serious lack of progress, funding, or achievement of intended outcomes.

-

⁶ Financial – e.g. project funding issues; Market – e.g. market environment, product entry; Technical – e.g. equipment failure; Regulatory – e.g. environmental approvals, permitting issues; Personnel.

⁷ Likelihood – Low – unlikely to occur <5%; Medium – moderately likely to occur ~25%; High – very likely to occur > 50%.



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Project phase timing may be adjusted depending on material availability, site readiness, technical readiness, cashflow, regulatory or political changes.

Cost Factors

CRA is not a factor in this project because the generation capacity is below the threshold of concern (less than 250kW of solarPV on any High Voltage Distribution Station).

Include any capital contributions made or forecast to be made to a transmitter with respect to a Connection and Cost Recovery Agreement. Details to be provided include: initial forecast used to calculate contribution, amount of contribution (if any), true-up dates and potential true-up payments.

CRA is not a factor in this project because the generation capacity is below the threshold of concern (less than 250kW of solarPV on any High Voltage Distribution Station).

Factors that may change the project cost are: unforeseen site conditions that would affect installation cost; increase in material costs due to USD exchange rate; change in permitting and approval costs; unexpected increase in labour costs.

Other Factors

Success of this demonstration project will depend on customer/prosumer acceptance; however, that factor is under test in this project. Hydro Ottawa will work closely with partners and participants to identify the challenges ahead of a wider scale deployment of behind the meter technology. So, through the automation of TGDR and use of the Loyalty and eWallet components, the chance of success is anticipated to increase.

Behind-the-meter product discontinuance may be a concern, though continued support is anticipated through the collaboration agreement with the participating partners.



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2.3.3.2.6. Renewable Energy Generation (if applicable)

The inverters used will be IEEE1547-2018 compliant, and this standard by nature should allow higher REG penetration levels, especially when managed through MiGenTGDR. No impact on the grid is anticipated by introducing the behind-the-meter REG devices as this would bewas assessed when selecting the sites. Nonetheless, a MiGenTGDR use case will be testing how MiGenTGDR can be used to avoid accommodation of REGs on the grid.

2.3.3.2.7. Leave-To-Construct (if applicable)

N/A

2.3.3.2.8. Project Details and Justification



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Table 2.59 - The MiGenOverview

Project Name:	MiGen (previously known as The GREAT-DR) The GREAT-DR (currently known as "MiGen")					
Capital Cost:	<mark>∼\$2,2M\$3.3M</mark> Hydro Ottawa cost (20 <mark>2119-</mark> 2022)					
O&M:	\$0.75M (2023-2025)					
Start Date:	<mark>20212018-11-20 (anticipated)</mark>					
In-Service Date:	<mark>20222021-03-31 (anticipated)</mark>					
Investment Category:	System Service Enter Investment Category					
Main Driver:	Customer and Utility Centric Non-wires solution					
Secondary Driver(s):	Improved grid management (planning & operation)					
Customer/Load Attachment	Site#1: ~39; Site#2: ~152					

Project Scope

This project will support the customer engagement and empowerment initiatives as discussed above. is an evolution from the first version and augments enhanced security, intelligence in forecasting and prediction of load profile and customer behaviour, advanced functions, shadow Transactive Energy Market, plus customer loyalty and settlement.

Work Plan

The planned initiatives will be executed in the windows listed below.

- Focusing on behind the meter technology (2021-2023)
- Developing partnerships, collaborations with vendors and stakeholders (2020-2025)
- Supporting the adoption of technology by the utility and its customers (2020-2025)

Nov./'18 - May/'19: planning; development of the requirements & system architecture document; contracting

May/'19 - Mar./'21: installation, development, integration & testing

Mar./'21 - Mar./'22: field trial, tweaking, monitoring, reporting and project close-out

Customer Impact

Immediate prosumer benefit is reduced electricity bills from self-generation, and the use of more efficient heating from air source heat pump versus electric baseboard.

Longer term benefit to a larger customer base comes from deferral or re-direction of grid growth investment that impacts largely the delivery fee. The funds can either be not-invested or redirected to reliability improvement, which is also a benefit to beyond the self-generating customer.

Should Ontario provide a Transactive Energy Market, the prosumer would receive more benefit than simply HOEP for offering their assets for shoring the grid.

Intangible benefits are: empowerment of the customer to be part of the industry transformation, and move to become a prosumer; ability to introduce more electric loads as new, replacement or supplement to other fuels; potential for choice in rate structure (eg., tiered, critical peak pricing, contracted demand, etc.).



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2.3.3.3. Other Distribution Enhancements Projects

2.3.3.3.1. Program Summary

This program contains projects which make modifications to the existing distribution system in order to improve system operation efficiency and reliability. In general this involves smaller distribution system enhancements such as minor circuit reconfigurations and increasing system automation. Through this program, Hydro Ottawa's total investment over the 2021-2025 period is \$6.73M. Projects covered under this program are discussed in further detail in the following sections.

2.3.3.3.2. Program Description

Current Issues

The projects planned under the Distribution Enhancements program for the upcoming 2021-2025 rate period are primarily focused on circuit automation projects. The current issues for each category are summarized below.

The South Nepean 28kV supply will be undergoing significant upgrades in capacity to accommodate the forecasted rapid load growth over the next decade. To make available the 100 MVA of new station capacity from the New South, six feeders are planned to be extended from the new station. These feeders will be integrated to the existing South Nepean 28kV distribution system and will require means for effectively reducing outage durations by making use of redundancies and ties.

Program Scope

The overall program scope includes projects which are smaller in scale such as minor circuit reconfigurations, and adding automation to the system. Projects within the scope of the Distribution Enhancement Program are purposed to achieve network stability, increase operational efficiency, and better reliability. Outside of the program scope are larger scale modifications where the main driver is improving problematic areas with reliability issues or projects driven by capacity needs.



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In the period of 2021-2025, the two main project types are planned to be executed citywide under this program. Other similar needs which fall under the Distribution Enhancements category are identified through annual system reviews and will also be included in this program.

To address the need to usefully integrate the New South feeders into the rest of the South Nepean 28kV distribution system, automation will be added to strategically chosen normally open points in the region. The automated open points are selected to effectively maintain or increase feeder redundancy, reduce outage duration.

Main and Secondary Drivers

The main driver for Distribution Enhancement projects is operational effectiveness. The projects described above increase operational efficiency in a number of ways. Increasing the availability of circuit interconnections in the South Nepean 8kV region helps with operational effectiveness by utilizing the existing station capacity at Borden Farms and bringing feeders below their N-1 rating.

Secondary drivers under the Distribution Enhancement program are reliability and capacity constraints. Reconfiguring the circuits in targeted regions will ultimately improve reliability by bringing feeders under their N-1 contingency rating and make available the station capacity. Circuit automation will enhance reliability by reducing outage duration that would otherwise be longer from manual switching operations.

Performance Targets and Objectives

The System Voltage Conversion Program's Key Performance Indicator (KPI) Targets by Category are shown in Table 2.60.



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Table 2.60 - Key Performance Indicator Target by Category

Category	Asset Management Objective	Sub-Category	Target
Customer Oriented Performance	Levels of Service	System Reliability	Improve System Average Interruption Frequency Index (SAIFI), System Average Interruption Duration Index (SAIDI), Customer Average Interruption Duration Index (CAIDI)
Cost Efficiency & Effectiveness	Resource Efficiency	Labour Utilization	Reduce Labour Allocation to Outage Restoration
Asset Performance	Asset Value		Reduce end-of-life equipment with high probability of failure
System Operations Performance	Levels of Service	Feeder Capacity	Increase usable feeder capacity

2.3.3.3. Program Justification

Alternatives Evaluation

Alternatives Considered

The following two alternatives were considered under the Distribution Enhancements Program.

Do Nothing

This alternative involves no implementation of the above discussed projects.

The New South station will be inefficiently integrated to the greater 28kV South Nepean system if no automation is added to strategically placed normally open points. SAIDI metrics will not be improved and there will be an ongoing labour cost associated with manual switching operations.



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Distribution Enhancement Projects

This alternative involves implementing the circuit reconfiguration and automation projects. The South Nepean 8kV system will properly and efficiently integrate the new capacity provided by Borden Farms and bring feeder loading levels up to their N-1 planning ratings. Grid automation will be strategically added to the South Nepean 28kV system to also properly and efficiently integrate the New South station, reduce outage durations, reduce operation costs and ultimately improve SAIDI metrics.

A summary of this alternative's expenditure is shown in the table below.

Table 2.61 - Expenditures (\$'000,000s)

			Test		
	2021	2022	2023	2024	2025
Total Expenditure	\$1.31	\$2.50	\$1.26	\$0.81	\$0.85

The New South Station and the additional load it provides to the South Nepean 28kV system will require automation to be properly integrated. Automation will be added to strategically selected normally open points with the goal of reducing outage durations, accommodating forecasted load growth, and maximizing the use of redundancies and ties.

Evaluation Criteria

The two alternatives are evaluated in regards to system reliability, cost efficiency, and feeder capacity.

Preferred Alternative

Alternative 2 is the preferred alternative as it complements other Capacity Upgrades projects that have been completed or are currently ongoing increasing the value obtained from those projects.

Program Timing & Expenditure

From 2016-2020, historical spending had been dedicated to switch automation, VBM's, adding fusing or permanent switches, and minor circuit reconfigurations similar to those discussed in this



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business case. Smaller scale enhancement projects were also completed with the same goals and objectives of the above discussed projects.

Future spending in the 2021-2025 period will entail the projects discussed in this report.

Table 2.62 - AS ORIGINALLY SUBMITTED - Other Distribution Enhancement Program Expenditure (\$'000,000s)

	Historical			Brid	lge	Test				
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Expenditure	\$0.92	\$1.25	\$1.27	\$1.69	\$2.41	\$1.31	\$2.50	\$1.26	\$0.81	\$0.85

Table 2.62 - UPDATED FOR 2019 ACTUALS - Other Distribution Enhancement Program Expenditure (\$'000,000s)

	Historical I				Bridge Test					
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Expenditure	\$0.92	\$1.25	\$1.27	\$1.33	\$2.40	\$1.31	\$2.50	\$1.26	\$0.81	\$0.85

Benefits

The benefits of the Distribution Enhancements program are described in Table 3.16 Program Benefits below.



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Table 2.63 - Program Benefits

Benefits	Description
System Operation Efficiency and Cost Effectiveness	The number of circuits and station transformers operating above planning rating will either be eliminated or significantly reduced. Switching operations to restore outages will be reduced in time. Costs for future station decommissioning or operating and maintenance costs will be eliminated.
Customer	The customer is benefitted by faster restoration times from the circuit reconfigurations and added system automation. Reconfiguring downtown circuits and preparing a dedicated backup for the Rideau Centre will benefit the customer and ultimately improve SAIDI and CAIDI.
Safety	N/A
Cyber-Security, Privacy	N/A
Co-ordination, Interoperability	N/A
Economic Development	The circuit reconfigurations are configured to make use of available feeder capacity and allow for future connections to the system, ultimately inviting economic development in the region.
Environment	N/A

2.3.3.3.4. Prioritization

Consequences of Deferral

Deferring the discussed Distribution Enhancement projects have various impacts on reliability, capacity, and system operational efficiency.

Inefficient integration will occur if automated open points are withheld when adding the New South into the greater 28kV South Nepean system. KPI metrics such as SAIDI will not be improved and labour costs associated with manual switching operations will continue.

Priority

Distribution Enhancements at the program level are ranked to be of high priority. This is due to the need for operational efficiency, requirement for increased or maintained reliability, constraints on capacity, consequential effects on the customer, and opportunities for improved interoperability, economic development, and environmental impacts.



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2.3.3.3.5. Execution Path

Implementation Plan

Project implementation will be executed as discussed in the program timing and expenditure section. Annual system studies will be factored into this program; if any projects under this category are of higher urgency, projects may be switched, deferred, added, or removed.

Risks to Completion and Risk Mitigation Strategies

N/A

Timing Factors

The yearly asset management cycle throughout the year where areas for distribution enhancements are identified. This process may cause a change in ranking on the list of planned projects as projects are added or removed.

Cost Factors

N/A

Other Factors

N/A

2.3.3.3.6. Renewable Energy Generation (if applicable)

N/A

2.3.3.3.7. Leave-To-Construct (if applicable)

N/A



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2.3.3.3.8. Project Details and Justification

Table 2.64 - Distribution Enhancements

Project Name:	Distribution Enhancements					
Capital Cost:	\$6,727,914					
O&M:	TBD					
Start Date:	1-Jan-2021					
In-Service Date:	2021-2025					
Investment Category:	System Service					
Main Driver:	Operational Effectiveness					
Secondary Driver(s):	Reliability, Capacity Constraints					
Customer/Load Attachment	All customers					
	D 1 10					

Project Scope

The Distribution Enhancements program contains projects which make modifications to the existing distribution system and is intended to improve system operation efficiency and reliability, and address capacity constraints. In general this involves smaller distribution system enhancements such as circuit reconfigurations and increasing system automation

Work Plan

Annual system studies will also be factored into this program; if any projects under this category are of higher urgency, projects may be switched, deferred, added, or removed.

Customer Impact

The customer benefits by faster restoration times from the circuit reconfigurations and added system automation. Reconfiguring downtown circuits and preparing a dedicated backup will benefit the customer and ultimately improve SAIFI and SAIDI



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UPDATED CAPITALIZATION OF OVERHEAD

2

1

Effective January 1, 2012, Hydro Ottawa revised its capitalization methodology used to apply overhead costs to property, plant, and equipment and intangible assets to be in accordance with International Financial Reporting Standards ("IFRS"). Under IFRS, International Accounting Standard 16 – *Property, Plant and Equipment* ("IAS 16") and International Accounting Standard 38 – *Intangible Assets* ("IAS 38") prohibit the capitalization of administration and other general overhead costs. As a result, the amount of capitalized overhead was significantly reduced as many of the costs that were capitalized prior to the revision of the policy were considered administrative or other general overhead. There have been no changes to Hydro Ottawa's capitalization of overhead since January 1, 2012 (and thus there have likewise been no changes since the utility's last rebasing application).

13

14 Hydro Ottawa applies overhead costs to capital through three separate burden rates: 15 Supervision burden, Engineering burden, and Supply Chain burden. The use of multiple burden 16 rates allows overhead costs to be applied more precisely to the particular projects that are

7 associated with the various types of overhead costs. Please refer to Attachment 2-4-4(A):

8 Capitalization Policy for Hydro Ottawa's capitalization policy.

19

20 As shown in **UPDATED** Attachment 2-4-5(A): OEB Appendix 2-D - Overhead Expenses, the

21 overhead costs capitalized (including labour and fleet) from 2017-2021 are in the range of 26%

22 to 29%.

UPDATED - Appendix 2-D Overhead Expense

Applicants are to provide a breakdown of OM&A before capitalization in the below table. OM&A before capitalization may be broken down by cost center, program, drivers or another format best suited to focus on capitalized vs. uncapitalized OM&A.

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OM&A Before Capitalization	Hi	2017 Historical Year		2018 Historical Year		2019 storical Year	E	2020 Bridge Year		2021 Test Year
Distribution Operations	\$	42,072,595	\$	42,985,534	\$	40,399,152	\$	44,455,558	\$	45,958,946
Engineering & Design	\$	12,437,569	\$	13,398,062	\$	12,507,395	\$	13,977,990	\$	14,167,879
Customer Billing	\$	8,936,703	\$	8,912,271	\$	9,120,268	\$	9,274,258	\$	9,619,556
Customer & Community Relations	\$	7,300,361	\$	7,010,829	\$	6,477,554	\$	8,003,925	\$	8,617,580
Collections, Acct & Activities	\$	3,781,614	\$	2,948,863	\$	2,371,317	\$	3,278,626	\$	3,377,588
Facilities	\$	6,443,441	\$	7,127,723	\$	9,919,789	\$	7,338,521	\$	7,475,608
Finance	\$	3,847,245	\$	3,963,955	\$	3,303,451	\$	3,340,269	\$	3,441,938
Human Resources & Training	\$	3,889,418	\$	4,056,098	\$	3,316,757	\$	3,853,861	\$	3,939,877
Information Mgt & Technology	\$	10,722,068	\$	10,884,225	\$	10,101,028	\$	11,952,687	\$	10,310,302
Metering	\$	2,856,917	\$	2,621,587	\$	2,454,821	\$	2,967,981	\$	3,074,131
Regulatory Affairs	\$	2,037,050	\$	2,157,111	\$	2,019,155	\$	2,248,403	\$	2,998,222
Safety, Environment & Bus Cont	\$	2,261,796	\$	3,434,261	\$	4,228,570	\$	3,662,418	\$	3,719,278
Supply Chain Corporate Costs	\$	2,632,039 5,854,631	\$	2,465,807 6,385,206	\$	2,489,293 5,041,203	\$	2,267,583 7,070,979	\$	2,321,330 7,625,461
Total OM&A Before Capitalization (B)	\$	115,073,447	\$	118,351,532	\$	113,749,753	\$	123,693,059	\$	126,647,696

Applicants are to provide a breakdown of capitalized OM&A in the below table. Capitalized OM&A may be broken down using the categories listed in the table below if possible. Otherwise, applicants are to provide its own break down of capitalized OM&A.

Capitalized OM&A	His	2017	His	2018 storical Year	His	2019	F	2020 Bridge Year		2021 Test Year	Directly Attributable? (Yes/No)	Explanation for Change in Overhead Capitalized
Supply Chain	\$	1,160,695	\$	1,213,508	\$		\$	1,205,476	\$	1,231,474	Yes	
Supervision	\$	2,365,426	\$	2,539,391	\$	2,315,815	\$	2,287,211	\$	2,530,939	Yes	
Engineering	\$	3,020,405	\$	3,235,342	\$	3,153,225	\$	2,910,979	\$	3,184,311	Yes	
Fleet	\$	2,954,501	\$	3,101,160	\$	3,010,871	\$	3,333,470	\$	3,317,225	Yes	
Labour	\$	23,327,587	\$	21,398,793	\$	20,956,236	\$	21,965,502	\$	22,461,088	Yes	
	<u> </u>											
Total Capitalized OM&A (A)	\$	32,828,614	\$	31,488,194	\$	30,636,893	\$	31,702,638	\$	32,725,037		
			_				_		_		•	
% of Capitalized OM&A (=A/B)	l	29%		27%		27%		26%	l	26%		



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UPDATED LOAD FORECAST

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3 1. INTRODUCTION

- 4 Hydro Ottawa engaged Itron to complete a 2021-2025 sales and energy forecast for the utility.
- 5 Itron completed forecasts for total energy and demand sales by rate class, total number of
- 6 customers and connections, and billing demand. The sale and energy forecast utilized actual
- 7 data on sales, customer numbers and connections, and actual purchases through December
- 8 2019. Forecasts were provided both with and without the impact of future Conservation and
- 9 Demand Management ("CDM") targets.

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- 11 A sales forecast model was used. For details regarding the forecast methodology, including
- 12 CDM persistence and future targets, economic assumptions, and data sources, please see the
- 13 following Attachments:

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- UPDATED Attachment 3-1-1(A): OEB Appendix 2-IB Load Forecast Analysis
- Attachment 3-1-1(B): OEB Appendix 2-I Load Forecast CDM Adjustment Workform
- UPDATED Attachment 3-1-1(C): Hydro Ottawa Long-Term Electric Energy and Demand Forecast (produced by Itron)
- Attachment 3-1-1(D): Part 1 Load Forecast Data Customers
- Attachment 3-1-1(D): Part 2 Load Forecast Data kWh
- Attachment 3-1-1(D): Part 3 Load Forecast Data kW

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- 23 Hydro Ottawa has completed **UPDATED** Attachment 3-1-1(A): Appendix 2-IB OEB Load
- 24 Forecast Analysis¹ and Attachment 3-1-1(B): OEB Appendix 2-I Load Forecast CDM
- 25 Adjustment Workform.

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- 27 Hydro Ottawa has adjusted Itron's load forecast to include Sentinel Lights and Standby Power,
- 28 as these were not forecasted separately by Itron.

²⁹ ¹Hydro Ottawa has made adjustments to Appendix 2-IB to include rows for the 2021-2025 forecast and has adjusted

³⁰ the demand per customer calculation.



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1 2. LOAD FORECAST

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² The updated version of Table 1 provides Hydro Ottawa's sales forecast by MWh for 2021-2025.

Table 1 – AS ORIGINALLY SUBMITTED – 2021-2025 Energy Sales Forecast by Customer Class (MWh)²

	2021	2022	2023	2024	2025
Residential	2,253,081	2,273,964	2,299,513	2,333,345	2,353,299
General Service < 50 kW	700,163	699,456	697,989	698,161	696,245
General Service 50 to 1,000 kW Non Interval	1,080,341	1,041,565	1,002,911	966,522	925,376
General Service 50 to 1,000 kW Interval	1,353,381	1,396,553	1,440,200	1,487,344	1,528,486
General Service 1,000 to 1,499 kW	385,754	386,993	388,279	390,553	391,592
General Service 1,500 to 4,999 kW	682,977	682,362	682,571	684,488	683,614
Large Use	574,292	572,889	572,033	572,834	570,390
Unmetered Scattered Load	13,602	13,130	12,663	12,195	11,728
Sentinel Lighting	47	47	47	47	47
Street Lighting	22,107	21,225	20,413	19,603	18,854
TOTAL MWh SALES	7,065,745	7,088,184	7,116,619	7,165,092	7,179,631

7 Table 1 – UPDATED FOR 2019 ACTUALS – 2021-2025 Energy Sales Forecast by Customer Class (MWh)³

	· ·	,			
	2021	2022	2023	2024	2025
Residential	2,252,937	2,273,821	2,299,366	2,333,198	2,353,149
General Service < 50 kW	699,871	699,134	697,636	697,774	695,837
General Service 50 to 1,000 kW Non Interval	1,080,526	1,041,853	1,003,315	967,024	926,028
General Service 50 to 1,000 kW Interval	1,351,427	1,394,295	1,437,626	1,484,411	1,525,261
General Service 1,000 to 1,499 kW	385,754	386,993	388,279	390,553	391,592
General Service 1,500 to 4,999 kW	682,919	682,301	682,505	684,409	683,532
Large Use	574,292	572,889	572,033	572,834	570,390
Unmetered Scattered Load	13,602	13,130	12,663	12,195	11,728
Sentinel Lighting	47	47	47	47	47
Street Lighting	22,107	21,225	20,413	19,603	18,854
TOTAL MWh SALES	7,063,482	7,085,688	7,113,883	7,162,048	7,176,418

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^{10 &}lt;sup>2</sup> This forecast does not include the Dry Core Transformer Charge.

¹¹ This forecast does not include the Dry Core Transformer Charge.



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1 The updated version of Table 2 below provides Hydro Ottawa's demand forecast by kW for

2 2021-2025.

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4 Table 2 – AS ORIGINALLY SUBMITTED – 2021-2025 Demand Sales Forecast by Customer

5 Class (kW)

	2021	2022	2023	2024	2025
General Service 50 to 1,000 kW Non Interval	2,784,778	2,699,506	2,614,514	2,534,500	2,444,024
General Service 50 to 1,000 kW Interval	3,177,890	3,262,709	3,348,459	3,441,080	3,521,915
General Service 1,000 to 1,499 kW	853,436	855,950	858,555	863,172	865,279
General Service 1,500 to 4,999 kW	1,518,349	1,517,223	1,517,607	1,521,105	1,519,514
Large Use	1,052,899	1,050,767	1,049,467	1,050,683	1,046,964
Standby Power	7,440	7,440	7,440	7,440	7,440
Sentinel Lighting	132	132	132	132	132
Street Lighting	61,588	58,863	56,618	54,373	52,530
TOTAL KW DEMAND SALES	9,456,512	9,452,590	9,452,792	9,472,485	9,457,798

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Table 2 – UPDATED FOR 2019 ACTUALS – 2021-2025 Demand Sales Forecast by

8 Customer Class (kW)

	2021	2022	2023	2024	2025
General Service 50 to 1,000 kW Non Interval	2,786,967	2,702,337	2,617,997	2,538,583	2,448,864
General Service 50 to 1,000 kW Interval	3,174,724	3,259,157	3,344,504	3,436,652	3,517,111
General Service 1,000 to 1,499 kW	853,438	855,951	858,556	863,172	865,281
General Service 1,500 to 4,999 kW	1,517,165	1,516,028	1,516,400	1,519,896	1,518,291
Large Use	1,052,901	1,050,767	1,049,467	1,050,683	1,046,964
Standby Power	7,440	7,440	7,440	7,440	7,440
Sentinel Lighting	132	132	132	132	132
Street Lighting	61,590	58,864	56,618	54,374	52,530
TOTAL KW DEMAND SALES	9,454,357	9,450,676	9,451,114	9,470,932	9,456,613

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1 3. CUSTOMER AND CONNECTION FORECAST

- 2 Tables 3 and 4 below provide Hydro Ottawa's average number of customers and connections
- 3 that are forecasted for the 2021-2025 period.

Table 3 – 2021-2025 Average Number of Customers by Class

	2021	2022	2023	2024	2025
Residential	316,346	319,386	322,306	325,150	327,975
General Service < 50 kW	25,391	25,554	25,704	25,846	25,987
General Service 50 to 1,000 kW Non Interval	2,004	1,930	1,856	1,782	1,707
General Service 50 to 1,000 kW Interval	1,043	1,082	1,120	1,158	1,196
General Service 1,000 to 1,499 kW	73	73	73	73	73
General Service 1,500 to 4,999 kW	68	68	68	68	68
Large Use	11	11	11	11	11
Standby Power	3	3	3	3	3
TOTAL CUSTOMERS	344,939	348,107	351,141	354,091	357,020

Table 4 – 2021-2025 Average Number of Connections by Customer Class

	2021	2022	2023	2024	2025
Unmetered Scattered Load	3,321	3,321	3,321	3,321	3,321
Sentinel Lighting	55	55	55	55	55
Street Lighting	62,806	63,725	64,645	65,564	66,484
TOTAL CONNECTIONS	66,182	67,101	68,021	68,940	69,860

9 4. TRANSFORMER OWNERSHIP CREDIT FORECAST

- 10 The updated version of Table 5 below provides Hydro Ottawa's forecast kW for 2021-2025 for
- 11 the transformer ownership credit ("TOC"). As of November 1, 2025, the TOC will be
- 12 discontinued for all customers. Please refer to **UPDATED** Exhibit 8-1-1: Fixed/Variable
- 13 Proportion for more details.

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Table 5 – AS ORIGINALLY SUBMITTED – 2021-2025 Demand Sales Forecast (kW) for

Transformer Ownership Credit

	2021	2022	2023	2024	2025
General Service 50 to 1,000 kW Non Interval	309,783	309,743	309,824	310,548	310,124
General Service 50 to 1,000 kW Interval	100,914	100,901	100,927	101,163	101,025
General Service 1,000 to 1,499 kW	352,026	351,981	352,073	352,895	352,414
General Service 1,500 to 4,999 kW	882,411	882,299	882,529	884,591	883,383
Large Use	701,705	701,615	701,798	703,438	702,478
TOTAL KW DEMAND SALES	2,346,838	2,346,539	2,347,151	2,352,635	2,349,424

Table 5 – UPDATED FOR 2019 ACTUALS – 2021-2025 Demand Sales Forecast (kW) for

Transformer Ownership Credit

	2021	2022	2023	2024	2025
General Service 50 to 1,000 kW Non Interval	309,711	309,680	309,768	310,497	310,085
General Service 50 to 1,000 kW Interval	100,891	100,881	100,909	101,147	101,012
General Service 1,000 to 1,499 kW	351,945	351,909	352,010	352,837	352,369
General Service 1,500 to 4,999 kW	882,208	882,119	882,371	884,445	883,272
Large Use	701,543	701,472	701,673	703,322	702,389
TOTAL KW DEMAND SALES	2,346,299	2,346,060	2,346,731	2,352,247	2,349,128

7 For the 2021-2025 class level revenue forecast, please see the Revenue Requirement 8 Workform ("RRWF") attachments listed below:

- UPDATED Attachment 6-1-1(A): OEB Workform 2021 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(B): OEB Workform 2022 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(C): OEB Workform 2023 Revenue Requirement
 Workform

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- UPDATED Attachment 6-1-1(D): OEB Workform 2024 Revenue Requirement
 Workform
 - UPDATED Attachment 6-1-1(E): OEB Workform 2025 Revenue Requirement Workform

5 5. CDM ADJUSTMENTS

6 Tables 6 and 7 below summarize Hydro Ottawa's CDM adjustments to its load forecast. The 7 CDM adjustments are comprised of assumptions related to the following:

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- Projected CDM savings from projects that are subject to contractual agreements between the utility and customers, made on or before April 30, 2019;
- Estimated rate base savings, as outlined in Exhibit 4-1-6: Conservation and Demand
 Management; and
 - Estimated impacts related to the continuation of CDM programs which are still being administered at the provincial level (i.e. by the Independent Electricity System Operator ["IESO"]).

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17 Table 6 provides Hydro Ottawa's sales forecast CDM adjustments by MWh for 2021-2025.

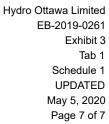




Table 6 – 2021-2025 Energy Sales CDM Adjustments by Customer Class (MWh)

	2021	2022	2023	2024	2025
Residential	8,478	9,135	9,219	9,300	9,379
General Service < 50 kW	16,151	19,798	24,180	28,566	31,935
General Service 50 to 1,000 kW Non Interval	20,319	23,573	26,304	28,816	30,851
General Service 50 to 1,000 kW Interval	25,653	31,796	37,983	44,596	51,222
General Service 1,000 to 1,499 kW	8,487	10,056	11,313	12,369	13,090
General Service 1,500 to 4,999 kW	48,038	53,795	58,785	63,772	68,370
Large Use	29,971	31,374	32,230	33,085	33,873
Unmetered Scattered Load	112	131	149	168	179
Sentinel Lighting	0	0	0	0	0
Street Lighting	5,308	6,194	7,006	7,816	8,565
TOTAL MWh SALES	162,517	185,852	207,169	228,488	247,464

3 Table 7 below provides Hydro Ottawa's demand forecast CDM adjustments by kW for 4 2021-2025.

Table 7 – 2021-2025 Demand Sales CDM Adjustments by Customer Class (kW)

	2021	2022	2023	2024	2025
General Service > 50 to 1,499 kW	112,290	134,704	155,421	176,080	195,031
General Service 1,500 to 4,999 kW	87,899	98,431	107,562	116,692	125,101
Large Use	45,592	47,724	49,024	50,327	51,527
Standby Power	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0
Street Lighting	14,272	17,025	19,270	21,515	23,358
TOTAL KW DEMAND SALES	260,053	297,884	331,277	364,614	395,017

8 ⁴ This forecast does not include the Dry Core Transformer Charge.

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UPDATED - Appendix 2-IB Customer, Connections, Load Forecast and Revenues Data and Analysis

This sheet is to be filled in accordance with the instructions documented in section 2.3.2 of Chapter 2 of the Filing Requirements for Distribution Rate Applications, in terms of one set of tables per customer class.

Color coding for Cells:	Data input	Drop-down List
	No data entry required	Blank or calculated value

Distribution System (Total)

	Calendar Year	Consumption (kWh) (3)				
	(for 2021 Cost of Service		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2015	Actual	7,409,199,533	7,404,434,000		
Historical	2016	Actual	7,407,917,661	7,262,271,000	OEB-approved	
Historical	2017	Actual	7,221,217,895	7,273,227,000		
Historical	2018	Actual	7,396,491,891	7,185,159,000		
Bridge Year	2019	Actual	7,268,791,267	7,216,529,000		
Bridge Year	2020	Forecast		7,129,018,000		
Test Year	2021	Forecast		7,063,482,000		
Test Year	2022	Forecast		7,085,688,000		
Test Year	2023	Forecast		7,113,883,000		
Test Year	2024	Forecast		7,162,048,000		
Test Year	2025	Forecast		7,176,418,000		

Variance Analysis	Year	Year-over-year		Versus OEB- approved
	2015			
	2016	0.0%	-1.9%	
	2017	-2.5%	0.2%	
	2018	2.4%	-1.2%	
	2019	-1.7%	0.4%	
	2020	-100.0%	-1.2%	
	2021		-0.9%	
	2022		0.3%	
	2023		0.4%	
	2024		0.7%	
	2025		0.2%	
	Geometric Mean	-0.6%	-0.9%	

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Customer Class Analysis (one for each Customer Class, excluding MicroFIT and Standby)

1 Customer Class:	Residential	Is the customer class billed on consumption (kWh) or demand (kW or kVA)?	kW

	Calendar Year		Cu	stomers			Consumption (kW	'h) (3)			Consumption (kWh) per Customer			
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized	
Historical	2015	Actual	293,884		Actual	2,242,517,759	2,241,280,000			Actual	7,631	7,626		
Historical	2016	Actual	298,001	OEB-approved	Actual	2,260,335,626	2,203,863,000	OEB-approved		Actual	7,585	7,395 OEB-approved		
Historical	2017	Actual	301,839		Actual	2,188,889,238	2,232,966,000			Actual	7,252	7,398		
Historical	2018	Actual	305,390		Actual	2,318,157,312	2,227,858,000			Actual	7,591	7,295		
Historical	2019	Actual	309,165		Actual	2,263,214,648	2,256,981,000			Actual	7,320	7,300		
Bridge Year	2020	Forecast	313,134		Forecast		2,254,424,000			Forecast	0	7,200		
Test Year	2021	Forecast	316,346		Forecast		2,252,937,000			Forecast	0	7,122		
Test Year	2022	Forecast	319,386		Forecast		2,273,821,000			Forecast	0	7,119		
Test Year	2023	Forecast	322,306		Forecast		2,299,366,000			Forecast	0	7,134		
Test Year	2024	Forecast	325,150		Forecast		2,333,198,000			Forecast	0	7,176		
Test Year	2025	Forecast	327,975		Forecast		2,353,149,000			Forecast	0	7,175		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-ov	er-year	Test Year Versus OEB- approved	Year	Year-over-y	ear	Test Year Versus OEB- approved
Historical	2015			2015				2015			
Historical	2016	1.4%		2016	0.8%	-1.7%		2016	-0.6%	-3.0%	
Historical	2017	1.3%		2017	-3.2%	1.3%		2017	-4.4%	0.0%	
Historical	2018	1.2%		2018	5.9%	-0.2%		2018	4.7%	-1.4%	
Historical	2019	1.2%		2019	-2.4%	1.3%		2019	-3.6%	0.1%	
Bridge Year	2020	1.3%		2020	-100.0%	-0.1%		2020	-100.0%	-1.4%	
Test Year	2021	1.0%		2021		-0.1%		2021		-1.1%	
Test Year	2022	1.0%		2022		0.9%		2022		0.0%	
Test Year	2023	0.9%		2023		1.1%		2023		0.2%	
Test Year	2024	0.9%		2024		1.5%		2024		0.6%	
Test Year	2025	4.7%		2025		0.9%		2025		0.0%	
	Geometric Mean	1.2%		Geometric Mean	0.3%	0.5%		Geometric Mean	-1.4%	-0.7%	

	Calendar Year (for 2021 Cost of Service			Re	evenues	
Historical	2015	l	Actual	\$ 86,662,173		
Historical	2016	ı	Actual	\$ 90,945,757	OEB-approved	
Historical	2017	l	Actual	\$ 92,970,029		
Historical	2018	l	Actual	\$ 99,559,087		
Historical	2019	l	Actual	\$ 104,856,328		
Bridge Year	2020	l	Forecast	\$ 104,307,875		
Test Year	2021	l	Forecast	\$ 116,124,290		
Test Year	2022	l	Forecast	\$ 124,445,561		
Test Year	2023	l	Forecast	\$ 131,655,555		
Test Year	2024	ı	Forecast	\$ 136,680,054		
Test Year	2025	l	Forecast	\$ 140,307,705		

		Demand (kW)				Dema	nd (kW) per Cu	stomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual					Actual	0	0		
Actual			OEB-approved		Actual	0	0	OEB-approved	
Actual					Actual	0	0		
Actual					Actual	0	0		
Actual					Actual	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	4.9%	
Historical	2017	2.2%	
Historical	2018	7.1%	
Historical	2019	5.3%	
Bridge Year	2020	14.7%	
Test Year	2021	11.3%	
Test Year	2022	7.2%	
Test Year	2024	9.8%	
Test Year	2025	2.7%	
	Geometric Mean	5.5%	

Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved
2015			2015		
2016			2016		
2017			2017		
2018			2018		
2019			2019		
2020			2020		
2021			2021		
2022			2022		
2024			2024		
2025			2025		
Geometric Mean			Geometric Mean		

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2 Customer Class: GS < 50 kW Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cu	stomers			Consumption (kW	h) (3)			Consump	tion (kWh) per Customer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual	24,392		Actual	723,754,871	722,461,000			Actual	29,672	29,619	
Historical	2016	Actual	24,623	OEB-approved	Actual	733,311,565	724,983,000	OEB-approved		Actual	29,782	29,443 OEB-approved	
Historical	2017	Actual	24,786		Actual	712,368,650	719,547,000			Actual	28,741	29,030	
Historical	2018	Actual	24,926		Actual	727,990,863	712,045,000			Actual	29,206	28,566	
Historical	2019	Actual	25,030		Actual	724,761,278	720,536,000			Actual	28,956	28,787	
Bridge Year	2020	Forecast	25,200		Forecast		707,564,000			Forecast	0	28,078	
Test Year	2021	Forecast	25,391		Forecast		699,871,000			Forecast	0	27,564	
Test Year	2022	Forecast	25,554		Forecast		699,134,000			Forecast	0	27,359	
Test Year	2023	Forecast	25,704		Forecast		697,636,000			Forecast	0	27,141	
Test Year	2024	Forecast	25,846		Forecast		697,774,000			Forecast	0	26,997	
Test Year	2025	Forecast	25,987		Forecast		695,837,000			Forecast	0	26,776	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-ov	er-year	Test Year Versus OEB- approved		Year	Year-over	-year	Test Year Versus OEE approved
Historical	2015			2015				ΙГ	2015			
Historical	2016	0.9%		2016	1.3%	0.3%		ш.	2016	0.4%	-0.6%	
Historical	2017	0.7%		2017	-2.9%	-0.7%		ш.	2017	-3.5%	-1.4%	
Historical	2018	0.6%		2018	2.2%	-1.0%		Н.	2018	1.6%	-1.6%	
Historical	2019	0.4%		2019	-0.4%	1.2%		Н.	2019	-0.9%	0.8%	
Bridge Year	2020	0.7%		2020	-100.0%	-1.8%		Н.	2020	-100.0%	-2.5%	
Test Year	2021	0.8%		2021		-1.1%		Н.	2021		-1.8%	
Test Year	2022	0.6%		2022		-0.1%		ш.	2022		-0.7%	
Test Year	2023	0.6%		2023		-0.2%		Н.	2023		-0.8%	
Test Year	2024	3.3%		2024		-3.2%		Ш	2024		-0.5%	
Test Year	2025	0.5%		2025		-0.3%		11	2025		-0.8%	
	Geometric Mean	0.7%		Geometric Mean		-0.4%			Geometric Mean	-0.8%	-1.1%	

	Calendar Year (for 2021 Cost			Re	evenues	
	of Service					
Historical	2015		Actual	\$ 20,147,319		
Historical	2016		Actual	\$ 21,249,335	OEB-approved	
Historical	2017		Actual	\$ 21,132,353		
Historical	2018		Actual	\$ 22,199,693		
Historical	2019		Actual	\$ 25,095,042		
Bridge Year	2020		Forecast	\$ 23,280,095		
Test Year	2021		Forecast	\$ 24,966,258		
Test Year	2022		Forecast	\$ 26,680,774		
Test Year	2023		Forecast	\$ 28,258,530		
Test Year	2024	ı	Forecast	\$ 29,333,599		
Test Year	2025		Forecast	\$ 30,076,336		

		Demand (kWh)			Demand (kWh) per Customer					
	Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized		
Actual					Actual	0	0				
Actual			OEB-approved		Actual	0	0	OEB-approved			
Actual					Actual	0	0				
Actual					Actual	0	0				
Actual					Actual	0	0				
Forecast					Forecast	0	0				
Forecast					Forecast	0	0				
Forecast					Forecast	0	0				
Forecast					Forecast	0	0				
Forecast					Forecast	0	0				
Forecast					Forecast	0	0				

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	5.5%	
Historical	2017	-0.6%	
Historical	2018	5.1%	
Historical	2019	13.0%	
Bridge Year	2020	-7.2%	
Test Year	2021	7.2%	
Test Year	2022	6.9%	
Test Year	2023	5.9%	
Test Year	2024	3.8%	
Test Year	2025	2.5%	
	Geometric Mean	4.6%	

Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved
2015			2015		
2016			2016		
2017			2017		
2018			2018		
2019			2019		
2020			2020		
2021			2021		
2022			2022		
2023			2023		
2024			2024		
2025			2025		
Geometric Mean			Geometric Mean		

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3 Customer Class: GS > 50 to 1,499 kW Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cu	stomers		. (Consumption (kW	h) (3)			Consump	tion (kWh) per Customer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual	3,326		Actual	2,949,262,003	2,945,598,000			Actual	886,729	885,628	
Historical	2016	Actual	3,207	OEB-approved	Actual	2,958,900,805	2,890,976,000	OEB-approved		Actual	922,638	901,458 OEB-approved	
Historical	2017	Actual	3,215		Actual	2,907,121,740	2,899,051,000			Actual	904,237	901,727	
Historical	2018	Actual	3,224		Actual	2,971,283,949	2,882,252,000			Actual	921,614	893,999	
Historical	2019	Actual	3,181		Actual	2,913,690,983	2,870,031,000			Actual	915,967	902,242	
Bridge Year	2020	Forecast	3,146		Forecast		2,838,242,000			Forecast	0	902,175	
Test Year	2021	Forecast	3,120		Forecast		2,817,707,000			Forecast	0	903,111	
Test Year	2022	Forecast	3,085		Forecast		2,823,141,000			Forecast	0	915,119	
Test Year	2023	Forecast	3,049		Forecast		2,829,220,000			Forecast	0	927,917	
Test Year	2024	Forecast	3,013		Forecast		2,841,988,000			Forecast	0	943,242	
Test Year	2025	Forecast	2,976		Forecast		2,842,881,000			Forecast	0	955,269	

Variance Analysis	Year		Year-over-year	Test Year Versus OEB- approved	Year	Year-o	ver-year		Test Year Versus OEB- approved	Year	Year-over	-year	Test Year Versus OEB- approved
Historical	2015	Actual			2015					2015			
Historical	2016	Actual	-3.6%		2016	0.3%	-1.9%			2016	4.0%	1.8%	
Historical	2017	Actual	0.2%		2017	-1.7%	0.3%			2017	-2.0%	0.0%	
Historical	2018	Actual	0.3%		2018	2.2%	-0.6%			2018	1.9%	-0.9%	
Historical	2019	Actual	-1.3%		2019	-1.9%	-0.4%			2019	-0.6%	0.9%	
Bridge Year	2020	Forecast	-1.1%		2020	-100.0%	-1.1%			2020	-100.0%	0.0%	
Test Year	2021	Forecast	-0.8%		2021		-0.7%			2021		0.1%	
Test Year	2022	Forecast	-1.1%		2022		0.2%			2022		1.3%	
Test Year	2023	Forecast	-1.2%		2023		0.2%			2023		1.4%	
Test Year	2024	Forecast	-1.2%		2024		0.5%			2024		1.7%	
Test Year	2025	Forecast	-1.2%		2025		0.0%	_		2025		1.3%	
	Geometric Mean		-1.2%		Geometric Mean	-100.0%	-0.4%			Geometric Mean	-100.0%	0.8%	

	Calendar Year	Г		Re	evenues	
	(for 2021 Cost of Service					
Historical	2015	Ī	Actual	\$ 35,899,655		
Historical	2016	l	Actual	\$ 36,179,929	OEB-approved	
Historical	2017	l	Actual	\$ 37,626,286		
Historical	2018	l	Actual	\$ 39,429,376		
Historical	2019	l	Actual	\$ 38,803,030		
Bridge Year	2020	l	Forecast	\$ 40,904,860		
Test Year	2021	l	Forecast	\$ 44,681,903		
Test Year	2022	l	Forecast	\$ 47,766,023		
Test Year	2023	l	Forecast	\$ 50,544,505		
Test Year	2024	l	Forecast	\$ 52,481,058		
Test Year	2025		Forecast	\$ 53,870,770		

		Demand (kW)	1		1		Dema	nd (kW) per Cu	stomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized			Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	7,203,146	7,172,939			1	Actual	2,166	2,157		
Actual	7,075,314	7,020,354	OEB-approved		Ι.	Actual	2,206	2,189	OEB-approved	
Actual	6,985,551	7,028,949			Ι.	Actual	2,173	2,186		
Actual	7,171,762	6,973,449			Ι.	Actual	2,224	2,163		
Actual	6,890,080	6,937,927			Ι.	Actual	2,166	2,181		
Forecast		6,866,524			Ι.	Forecast	0	2,183		
Forecast		6,815,129			Ι.	Forecast	0	2,184		
Forecast		6,817,445			Ι.	Forecast	0	2,210		
Forecast		6,821,057			Ш	Forecast	0	2,237		
Forecast		6,838,407			ш	Forecast	0	2,270		
Forecast		6,831,256			Ι.	Forecast	0	2,295		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	0.8%	
Historical	2017	4.0%	
Historical	2018	4.8%	
Historical	2019	-1.6%	
Bridge Year	2020	5.4%	
Test Year	2021	9.2%	
Test Year	2022	6.9%	
Test Year	2023	5.8%	
Test Year	2024	3.8%	
Test Year	2025	2.6%	
	Geometric Mean	4.6%	

Year	Year-ov	er-year	Test Year Versus OEB- approved	Year	Year-over	-year	Test Year Versus OEB- approved
2015				2015			
2016	-1.8%	-2.1%		2016	1.9%	1.5%	
2017	-1.3%	0.1%		2017	-1.5%	-0.1%	
2018	2.7%	-0.8%		2018	2.4%	-1.1%	
2019	-3.9%	-0.5%		2019	-2.6%	0.8%	
2020	-100.0%	-1.0%		2020	-100.0%	0.1%	
2021		-0.7%		2021		0.1%	
2022		0.0%		2022		1.2%	
2023		0.1%		2023		1.2%	
2024		0.3%		2024		1.5%	
2025		-0.1%		2025		1.1%	
Geometric Mean	-100.0%	-0.5%		Geometric Mean	-100.0%	0.7%	

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4 Customer Class: GS > 1,500 to 4,999 kW Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cı	ıstomers			Consumption (kW	/h) (3)			Consump	tion (kWh) per Customer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual	79		Actual	867,663,053	868,325,000			Actual	10,983,077	10,991,456	
Historical	2016	Actual	72	OEB-approved	Actual	805,583,761	797,370,000	OEB-approved		Actual	11,188,663	11,074,583 OEB-approved	
Historical	2017	Actual	74		Actual	753,196,270	759,004,000			Actual	10,178,328	10,256,811	
Historical	2018	Actual	68		Actual	723,849,223	712,925,000			Actual	10,644,842	10,484,191	
Historical	2019	Actual	67		Actual	723,713,557	724,066,000			Actual	10,801,695	10,806,955	
Bridge Year	2020	Forecast	68		Forecast		701,743,000			Forecast	0	10,319,750	
Test Year	2021	Forecast	68		Forecast		682,919,000			Forecast	0	10,042,926	
Test Year	2022	Forecast	68		Forecast		682,301,000			Forecast	0	10,033,838	
Test Year	2023	Forecast	68		Forecast		682,505,000			Forecast	0	10,036,838	
Test Year	2024	Forecast	68		Forecast		684,409,000			Forecast	0	10,064,838	
Test Year	2025	Forecast	68		Forecast		683,532,000			Forecast	0	10,051,941	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-ov	er-year	Test Year Versus OEB- approved	Year	Year-over-y	ear	Test Year Versus OEB- approved
Historical	2015			2015				2015			
Historical	2016	-8.9%		2016	-7.2%	-8.2%		2016	1.9%	0.8%	
Historical	2017	2.8%		2017	-6.5%	-4.8%		2017	-9.0%	-7.4%	
Historical	2018	-8.1%		2018	-3.9%	-6.1%		2018	4.6%	2.2%	
Historical	2019	-1.5%		2019	0.0%	1.6%		2019	1.5%	3.1%	
Bridge Year	2020	1.5%		2020	-100.0%	-3.1%		2020	-100.0%	-4.5%	
Test Year	2021	-8.1%		2021		-2.7%		2021		2.2%	
Test Year	2022	-1.5%		2022		1.6%		2022		3.1%	
Test Year	2023	1.5%		2023		-5.5%		2023		-6.9%	
Test Year	2024	0.0%		2024		-2.6%		2024		-2.6%	
Test Year	2025	0.0%		2025		-0.1%		2025		-0.1%	
	Geometric Mean	-1.7%		Geometric Mean	-5.9%	-2.6%		Geometric Mean	-0.6%	-1.0%	

	Calendar Year (for 2021 Cost		Re	evenues	
	of Service				
Historical	2015	Actual	\$ 9,361,880		
Historical	2016	Actual	\$ 9,521,453	OEB-approved	
Historical	2017	Actual	\$ 9,754,449		
Historical	2018	Actual	\$ 9,406,664		
Historical	2019	Actual	\$ 10,535,253		
Bridge Year	2020	Forecast	\$ 12,744,060		
Test Year	2021	Forecast	\$ 10,829,246		
Test Year	2022	Forecast	\$ 11,572,133		
Test Year	2023	Forecast	\$ 12,245,667		
Test Year	2024	Forecast	\$ 12,714,911		
Test Year	2025	Forecast	\$ 13,051,553		

		Demand (kW)] [Dema	nd (kW) per Cu	stomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized			Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	1,848,869	1,885,572			П	Actual	23,403	23,868		
Actual	1,726,981	1,731,827	OEB-approved		Ш	Actual	23,986	24,053	OEB-approved	
Actual	1,649,388	1,650,012			Ш	Actual	22,289	22,297		
Actual	1,580,852	1,548,930			Ш	Actual	23,248	22,778		
Actual	1,604,681	1,573,758			Ш	Actual	23,950	23,489		
Forecast		1,551,714			Ш	Forecast	0	22,819		
Forecast		1,517,165			Ш	Forecast	0	22,311		
Forecast		1,516,028			Ш	Forecast	0	22,295		
Forecast		1,516,400			Ш	Forecast	0	22,300		
Forecast		1,519,896			Ш	Forecast	0	22,351		
Forecast		1,518,291			IJ	Forecast	0	22,328		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	1.7%	
Historical	2017	2.4%	
Historical	2018	-3.6%	
Historical	2019	12.0%	
Bridge Year	2020	21.0%	
Test Year	2021	-15.0%	
Test Year	2022	6.9%	
Test Year	2023	5.8%	
Test Year	2024	3.8%	
Test Year	2025	2.6%	
	Geometric Mean	3.8%	

Year	Year-ov	er-year	Test Year Versus OEB- approved	Year	Year-over	-year	Test Ye Versus C approv
2015				2015			
2016	-6.6%	-8.2%		2016	2.5%	0.8%	
2017	-4.5%	-4.7%		2017	-7.1%	-7.3%	
2018	-4.2%	-6.1%		2018	4.3%	2.2%	
2019	1.5%	1.6%		2019	3.0%	3.1%	
2020	-100.0%	-1.4%		2020	-100.0%	-2.9%	
2021		-2.2%		2021		-2.2%	
2022		-0.1%		2022		-0.1%	
2023		0.0%		2023		0.0%	
2024		0.2%		2024		0.2%	
2025		-0.1%		2025		-0.1%	
Seometric Mean	-100.0%	-2.4%		Geometric Mean	-100.0%	-0.7%	

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5 Customer Class: Large Use Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cı	ustomers			Consumption (kW	h) (3)			Consump	tion (kWh) per Customer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual	10		Actual	564,803,671	565,577,000			Actual	56,480,367	56,557,700	
Historical	2016	Actual	11	OEB-approved	Actual	588,872,536	584,167,000	OEB-approved		Actual	53,533,867	53,106,091 OEB-approved	
Historical	2017	Actual	12		Actual	606,156,950	609,177,000			Actual	50,513,079	50,764,750	
Historical	2018	Actual	13		Actual	608,577,999	603,448,000			Actual	46,813,692	46,419,077	
Historical	2019	Actual	11		Actual	602,082,783	603,590,000			Actual	54,734,798	54,871,818	
Bridge Year	2020	Forecast	11		Forecast		588,828,000			Forecast	0	53,529,818	
Test Year	2021	Forecast	11		Forecast		574,292,000			Forecast	0	52,208,364	
Test Year	2022	Forecast	11		Forecast		572,889,000			Forecast	0	52,080,818	
Test Year	2023	Forecast	11		Forecast		572,033,000			Forecast	0	52,003,000	
Test Year	2024	Forecast	11		Forecast		572,834,000			Forecast	0	52,075,818	
Test Year	2025	Forecast	11		Forecast		570,390,000			Forecast	0	51,853,636	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-ove	er-year	Test Year Versus OEB- approved	Year	Year-over-y	ear	Test Yea Versus O approve
Historical	2015			2015				2015			
Historical	2016	10.0%		2016	4.3%	3.3%		2016	-5.2%	-6.1%	
Historical	2017	9.1%		2017	2.9%	4.3%		2017	-5.6%	-4.4%	
Historical	2018	8.3%		2018	0.4%	-0.9%		2018	-7.3%	-8.6%	
Historical	2019	-15.4%		2019	-1.1%	0.0%		2019	16.9%	18.2%	
Bridge Year	2020	0.0%		2020	-100.0%	-2.4%		2020	-100.0%	-2.4%	
Test Year	2021	0.0%		2021		-2.5%		2021		-2.5%	
Test Year	2022	0.0%		2022		-0.2%		2022		-0.2%	
Test Year	2023	0.0%		2023		-0.1%		2023		-0.1%	
Test Year	2024	0.0%		2024		0.1%		2024		0.1%	
Test Year	2025	0.0%		2025		-0.4%		2025		-0.4%	
	Geometric Mean	1.1%		Geometric Mean	-100.0%	0.1%		Geometric Mean	-100.0%	-1.0%	

	Calendar Year	Г		Re	evenues	
	(for 2021 Cost of Service					
Historical	2015	ĺ	Actual	\$ 4,948,419		
Historical	2016		Actual	\$ 5,152,898	OEB-approved	
Historical	2017		Actual	\$ 6,052,658		
Historical	2018		Actual	\$ 6,218,737		
Historical	2019		Actual	\$ 6,737,691		
Bridge Year	2020		Forecast	\$ 6,729,311		
Test Year	2021		Forecast	\$ 7,289,429		
Test Year	2022		Forecast	\$ 7,790,002		
Test Year	2023		Forecast	\$ 8,243,395		
Test Year	2024		Forecast	\$ 8,559,248		
Test Year	2025		Forecast	\$ 8,785,857		

					7						
		Demand (kW))		_		Demand (kW) per Customer				
	Actual (Weather actual)	Weather- normalized		Weather- normalized			Actual (Weather actual)	Weather- normalized		Weather- normalize	
Actual	1,045,761	1,026,493			1	Actual	104,576	102,649			
Actual	1,071,626	1,061,398	OEB-approved		ш.	Actual	97,421	96,491	OEB-approved		
Actual	1,100,755	1,105,747			ш.	Actual	91,730	92,146			
Actual	1,106,783	1,095,710			ш.	Actual	85,137	84,285			
Actual	1,064,513	1,096,064			ш.	Actual	96,774	99,642			
Forecast		1,075,011			ш.	Forecast	0	97,728			
Forecast		1,052,901			ш.	Forecast	0	95,718			
Forecast		1,050,767			ш.	Forecast	0	95,524			
Forecast		1,049,467			ш	Forecast	0	95,406			
Forecast		1,050,683			ш.	Forecast	0	95,517			
Forecast		1,046,964			ш.	Forecast	0	95,179			

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	4.1%	
Historical	2017	17.5%	
Historical	2018	2.7%	
Historical	2019	8.3%	
Bridge Year	2020	-0.1%	
Test Year	2021	8.3%	
Test Year	2022	6.9%	
Test Year	2023	5.8%	
Test Year	2024	3.8%	
Test Year	2025	2.6%	
	Geometric Mean	6.6%	

Year	Year-ov	er-year	Test Year Versus OEB- approved	Year	Year-over	-year	Test Year Versus OEB- approved
2015				2015			
2016	2.5%	3.4%		2016	-6.8%	-6.0%	
2017	2.7%	4.2%		2017	-5.8%	-4.5%	
2018	0.5%	-0.9%		2018	-7.2%	-8.5%	
2019	-3.8%	0.0%		2019	13.7%	18.2%	
2020	-100.0%	-1.9%		2020	-100.0%	-1.9%	
2021		-2.1%		2021		-2.1%	
2022		-0.2%		2022		-0.2%	
2023		-0.1%		2023		-0.1%	
2024		0.1%		2024		0.1%	
2025		-0.4%		2025		-0.4%	
Geometric Mean	-100.0%	0.2%		Geometric Mean	-100.0%	-0.8%	

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6 Customer Class: Street Lighting Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cu	stomers			Consumption (kW	h) (3)		Consump	tion (kWh) per Cus	stomer
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized	Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual	56,682		Actual	45,151,658	45,150,000		Actual	797	797	
Historical	2016	Actual	58,588	OEB-approved	Actual	45,206,290	45,206,000		Actual	772	772	
Historical	2017	Actual	58,470		Actua	38,203,632	38,204,000		Actual	653	653	
Historical	2018	Actual	59,286		Actua	31,723,370	31,723,000		Actual	535	535	
Historical	2019	Actual	60,538		Actua	26,730,515	26,728,000		Actual	442	442	
Bridge Year	2020	Forecast	61,886		Foreca	t	24,064,000		Forecast	0	389	
Test Year	2021	Forecast	62,806		Forecas	t	22,107,000		Forecast	0	352	
Test Year	2022	Forecast	63,725		Foreca	t	21,225,000		Forecast	0	333	
Test Year	2023	Forecast	64,645		Forecas	t	20,413,000		Forecast	0	316	
Test Year	2024	Forecast	65,564		Forecas	t	19,603,000		Forecast	0	299	
Test Year	2025	Forecast	66,484		Forecas	t	18,854,000		Forecast	0	284	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-ove	r-year	Test Year Versus OEB- approved	Year	Year-over	-year	Test Year Versus OEB- approved
Historical	2015			2015				2015			
Historical	2016	3.4%		2016	0.1%	0.1%		2016	-3.1%	-3.1%	
Historical	2017	-0.2%		2017	-15.5%	-15.5%		2017	-15.3%	-15.3%	
Historical	2018	1.4%		2018	-17.0%	-17.0%		2018	-18.1%	-18.1%	
Historical	2019	2.1%		2019	-15.7%	-15.7%		2019	-17.5%	-17.5%	
Bridge Year	2020	2.2%		2020	-100.0%	-10.0%		2020	-100.0%	-11.9%	
Test Year	2021	1.5%		2021		-8.1%		2021		-9.5%	
Test Year	2022	1.5%		2022		-4.0%		2022		-5.4%	
Test Year	2023	1.4%		2023		-3.8%		2023		-5.2%	
Test Year	2024	1.4%		2024		-4.0%		2024		-5.3%	
Test Year	2025	1.4%		2025		-3.8%	_	2025		-5.2%	
	Geometric Mean	1.8%		Geometric Mean	-100.0%	-9.2%		Geometric Mean	-100.0%	-10.8%	

	Calendar Year			Re	evenues	
	(for 2021 Cost of Service					
Historical	2015	ĺ	Actual	\$ 856,864		
Historical	2016		Actual	\$ 1,211,096	OEB-approved	
Historical	2017		Actual	\$ 1,150,869		
Historical	2018		Actual	\$ 1,121,289		
Historical	2019		Actual	\$ 1,277,158		
Bridge Year	2020		Forecast	\$ 1,387,140		
Test Year	2021		Forecast	\$ 1,126,911		
Test Year	2022		Forecast	\$ 1,205,328		
Test Year	2023		Forecast	\$ 1,274,794		
Test Year	2024	ı	Forecast	\$ 1,322,985		
Test Year	2025		Forecast	\$ 1,357,443		

		Demand (kW)			Dema	nd (kW) per Cus	stomer
	Actual (Weather actual)	Weather- normalized	Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Actual	125,349	125,350		Actual	2	2	
Actual	125,463	125,465		Actual	2	2	
Actual	106,296	106,296		Actual	2	2	
Actual	81,768	88,707		Actual	1	1	
Actual	80,895	74,394		Actual	1	1	
Forecast		67,033		Forecast	0	1	
Forecast		61,590		Forecast	0	1	
Forecast		58,864		Forecast	0	1	
Forecast		56,618		Forecast	0	1	
Forecast		54,374		Forecast	0	1	
Forecast		52,530		Forecast	0	1	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	41.3%	
Historical	2017	-5.0%	
Historical	2018	-2.6%	
Historical	2019	13.9%	
Bridge Year	2020	8.6%	
Test Year	2021	-18.8%	
Test Year	2022	7.0%	
Test Year	2023	5.8%	
Test Year	2024	3.8%	
Test Year	2025	2.6%	
	Geometric Mean	5.2%	

Year	Year-ov	er-year	Test Year Versus OEB- approved	Year	Year-over-y	/ear	Test Year Versus OEB- approved
2015				2015			
2016	0.1%	0.1%		2016	-3.2%	-3.2%	
2017	-15.3%	-15.3%		2017	-15.1%	-15.1%	
2018	-23.1%	-16.5%		2018	-24.1%	-17.7%	
2019	-1.1%	-16.1%		2019	-3.1%	-17.9%	
2020	-100.0%	-9.9%		2020	-100.0%	-11.9%	
2021		-8.1%		2021		-9.5%	
2022		-4.4%		2022		-5.8%	
2023		-3.8%		2023		-5.2%	
2024		-4.0%		2024		-5.3%	
2025		-3.4%		2025		-4.7%	
Geometric Mean	-100.0%	-9.2%		Geometric Mean	-100.0%	-1	

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7 Customer Class: Sentinel Lights Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cı	ustomers		С	onsumption (kW	/h) (3)			Consump	tion (kWh) per Customer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual	55		Actual	48,804	47,000			Actual	887	855	
Historical	2016	Actual	62	OEB-approved	Actual	48,064	47,000	OEB-approved		Actual	775	758 OEB-approved	
Historical	2017	Actual	58		Actual	51,051	47,000			Actual	880	810	
Historical	2018	Actual	57		Actual	48,433	47,000			Actual	850	825	
Historical	2019	Actual	55		Actual	47,813	47,000			Actual	869	855	
Bridge Year	2020	Forecast	55		Forecast		47,000			Forecast	0	855	
Test Year	2021	Forecast	55		Forecast		47,000			Forecast	0	855	
Test Year	2022	Forecast	55		Forecast		47,000			Forecast	0	855	
Test Year	2023	Forecast	55		Forecast		47,000			Forecast	0	855	
Test Year	2024	Forecast	55		Forecast		47,000			Forecast	0	855	
Test Year	2025	Forecast	55		Forecast		47,000			Forecast	0	855	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-ove	er-year	Test Year Versus OEB- approved	Year	Year-over-y	year	Ve	Test Year ersus OEB- approved
Historical	2015			2015				2015				
Historical	2016	12.7%		2016	-1.5%	0.0%		2016	-12.6%	-11.3%		
Historical	2017	-6.5%		2017	6.2%	0.0%		2017	13.5%	6.9%		
Historical	2018	-1.7%		2018	-5.1%	0.0%		2018	-3.5%	1.8%		
Historical	2019	-3.5%		2019	-1.3%	0.0%		2019	2.3%	3.6%		
Bridge Year	2020	0.0%		2020	-100.0%	0.0%		2020	-100.0%	0.0%		
Test Year	2021	-11.3%		2021		0.0%		2021		0.0%		
Test Year	2022	0.0%		2022		0.0%		2022		0.0%		
Test Year	2023	0.0%		2023		0.0%		2023		0.0%		
Test Year	2024	0.0%		2024		0.0%		2024		0.0%		
Test Year	2025	0.0%		2025		0.0%		2025		0.0%		
	Geometric Mean	0.0%		Geometric Mean	-100.0%	0.0%		Geometric Mean	-100.0%	0.0%		

	Calendar Year	Г		Re	evenues	
	(for 2021 Cost of Service					
Historical	2015	ĺ	Actual	\$ 3,036		
Historical	2016		Actual	\$ 3,505	OEB-approved	
Historical	2017		Actual	\$ 3,912		
Historical	2018		Actual	\$ 4,106		
Historical	2019		Actual	\$ 4,187		
Bridge Year	2020		Forecast	\$ 4,691		
Test Year	2021		Forecast	\$ 5,002		
Test Year	2022		Forecast	\$ 5,934		
Test Year	2023		Forecast	\$ 6,843		
Test Year	2024	ı	Forecast	\$ 7,691		
Test Year	2025		Forecast	\$ 8,500		

		Demand (kW)		П		Dema	ind (kW) per Cu	stomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized			Actual (Weather actual)	Weather- normalized		Weathe normaliz
Actual	136	132			1	Actual	2	2		
Actual	134	132	OEB-approved		Ш	Actual	2	2	OEB-approved	
Actual	142	132			Ш	Actual	2	2		
Actual	135	132			Ш	Actual	2	2		
Actual	133	132			Ш	Actual	2	2		
Forecast		132			Ш	Forecast	0	2		
Forecast		132			Ш	Forecast	0	2		
Forecast		132			Ш	Forecast	0	2		
Forecast		132			Ш	Forecast	0	2		
Forecast		132			Ш	Forecast	0	2		
Forecast		132			Ш	Forecast	0	2		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	15.5%	
Historical	2017	11.6%	
Historical	2018	5.0%	
Historical	2019	2.0%	
Bridge Year	2020	12.0%	
Test Year	2021	6.6%	
Test Year	2022	18.6%	
Test Year	2023	15.3%	
Test Year	2024	12.4%	
Test Year	2025	10.5%	
	Geometric Mean	12.1%	

Year	Year-ov	er-year	Test Year Versus OEB- approved	Year	Year-over	-year	Test Year Versus OEB- approved
2015				2015			
2016	-1.5%	0.0%		2016	-12.6%	-11.3%	
2017	6.0%	0.0%		2017	13.3%	6.9%	
2018	-4.9%	0.0%		2018	-3.3%	1.8%	
2019	-1.5%	0.0%		2019	2.1%	3.6%	
2020	-100.0%	0.0%		2020	-100.0%	0.0%	
2021		0.0%		2021		0.0%	
2022		0.0%		2022		0.0%	
2023		0.0%		2023		0.0%	
2024		0.0%		2024		0.0%	
2025		0.0%		2025		0.0%	
Geometric Mean	-100.0%	0.0%		Geometric Mean	-100.0%	0.0%	

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8 Customer Class: Unmetered Scattered Load Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cu	stomers			Consumption (kW	h) (3)			Consump	tion (kWh) per Customer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual	3,398		Actual	15,997,714	15,996,000			Actual	4,708	4,707	
Historical	2016	Actual	3,416	OEB-approved	Actual	15,659,015	15,659,000	OEB-approved		Actual	4,584	4,584 OEB-approved	
Historical	2017	Actual	3,443		Actual	15,230,364	15,231,000			Actual	4,424	4,424	
Historical	2018	Actual	3,440		Actual	14,860,742	14,861,000			Actual	4,320	4,320	
Historical	2019	Actual	3,382		Actual	14,549,690	14,550,000			Actual	4,302	4,302	
Bridge Year	2020	Forecast	3,321		Forecast		14,106,000			Forecast	0	4,248	
Test Year	2021	Forecast	3,321		Forecast		13,602,000			Forecast	0	4,096	
Test Year	2022	Forecast	3,321		Forecast		13,130,000			Forecast	0	3,954	
Test Year	2023	Forecast	3,321		Forecast		12,663,000			Forecast	0	3,813	
Test Year	2024	Forecast	3,321		Forecast		12,195,000			Forecast	0	3,672	
Test Year	2025	Forecast	3,321		Forecast		11,728,000			Forecast	0	3,531	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-ove	er-year	Test Year Versus OEB- approved	Year	Year-over-y	ear	Test Year Versus OEB- approved
Historical	2015			2015				2015			
Historical	2016	0.5%		2016	-2.1%	-2.1%		2016	-2.6%	-2.6%	
Historical	2017	0.8%		2017	-2.7%	-2.7%		2017	-3.5%	-3.5%	
Historical	2018	-0.1%		2018	-2.4%	-2.4%		2018	-2.3%	-2.3%	
Historical	2019	-1.7%		2019	-2.1%	-2.1%		2019	-0.4%	-0.4%	
Bridge Year	2020	-1.8%		2020	-100.0%	-3.1%		2020	-100.0%	-1.3%	
Test Year	2021	-2.8%		2021		-3.6%		2021		-10.7%	
Test Year	2022	0.0%		2022		-3.5%		2022		-3.5%	
Test Year	2023	0.0%		2023		-3.6%		2023		-3.6%	
Test Year	2024	0.0%		2024		-3.7%		2024		-3.7%	
Test Year	2025	0.0%		2025		-3.8%		2025		-3.8%	
	Geometric Mean	-0.3%		Geometric Mean	-100.0%	-3.4%		Geometric Mean	-100.0%	-3.1%	

	Calendar Year	Г		Re	evenues	
	(for 2021 Cost of Service					
Historical	2015	ĺ	Actual	\$ 521,845		
Historical	2016		Actual	\$ 534,169	OEB-approved	
Historical	2017		Actual	\$ 529,459		
Historical	2018		Actual	\$ 376,075		
Historical	2019		Actual	\$ 557,692		
Bridge Year	2020		Forecast	\$ 631,316		
Test Year	2021		Forecast	\$ 580,904		
Test Year	2022		Forecast	\$ 622,437		
Test Year	2023		Forecast	\$ 658,038		
Test Year	2024		Forecast	\$ 682,993		
Test Year	2025		Forecast	\$ 701,468		

		Demand (kWh)			Demar	ıd (kWh) per Cu	stomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual					Actual	0	0		
Actual			OEB-approved		Actual	0	0	OEB-approved	
Actual					Actual	0	0		
Actual					Actual	0	0		
Actual					Actual	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		
Forecast					Forecast	0	0		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016	2.4%	
Historical	2017	-0.9%	
Historical	2018	-29.0%	
Historical	2019	48.3%	
Bridge Year	2020	13.2%	
Test Year	2021	-8.0%	
Test Year	2022	7.1%	
Test Year	2023	5.7%	
Test Year	2024	3.8%	
Test Year	2025	2.7%	
	Geometric Mean	3.3%	

Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved
2015			2015		
2016			2016		
2017			2017		
2018			2018		
2019			2019		
2020			2020		
2021			2021		
2022			2022		
2023			2023		
2024			2024		
2025			2025		
Geometric Mean			Geometric Mean		

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9 Customer Class: Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

	Calendar Year		Cus	tomers		, с	onsumption (kW	h) (3)			Consum	ption (kWh) per Customer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2015	Actual			Actual					Actual			
Historical	2016	Actual	(DEB-approved	Actual			OEB-approved		Actual		OEB-approved	
Historical	2017	Actual			Actual					Actual			
Historical	2018	Actual			Actual					Actual			
Historical	2019	Forecast			Forecast					Forecast			
Bridge Year	2020	Forecast			Forecast					Forecast			
Test Year	2021	Forecast			Forecast					Forecast			
Test Year	2022	Forecast			Forecast					Forecast			
Test Year	2023	Forecast			Forecast					Forecast			
Test Year	2024	Forecast			Forecast					Forecast			
Test Year	2025	Forecast			Forecast					Forecast			

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015			2015			2015		
Historical	2016			2016			2016		
Historical	2017			2017			2017		
Historical	2018			2018			2018		
Bridge Year	2019			2019			2019		
Bridge Year	2020			2020			2020		
Test Year	2021			2021			2021		
Test Year	2022			2022			2022		
Test Year	2023			2023			2023		
Test Year	2024			2024			2024		
Test Year	2025			2025			2025		
	Geometric Mean			Geometric Mean			Geometric Mean		

	Calendar Year		Re	evenues	
	(for 2021 Cost of Service				
Historical	2015	Actual			
Historical	2016	Actual			
Historical	2017	Actual			
Historical	2018	Actual			
Bridge Year	2019	Forecast			
Bridge Year	2020	Forecast			
Test Year	2021	Forecast			
Test Year	2022	Forecast			
Test Year	2023	Forecast			
Test Year	2024	Forecast			
Test Year	2025	Forecast			

		Demand (kW))			Dema	and (kW) per Cu	stomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual					Actual				
Actual					Actual				
Actual					Actual				
Actual					Actual				
Forecast					Forecast				
Forecast			OEB-approved		Forecast			OEB-approved	
Forecast					Forecast				
Forecast					Forecast				
Forecast					Forecast		1		
Forecast					Forecast				
Forecast					Forecast				

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015		
Historical	2016		
Historical	2017		
Historical	2018		
Bridge Year	2019		
Bridge Year	2020		
Test Year	2021		
Test Year	2022		
Test Year	2023		
Test Year	2024		
Test Year	2025		
	Geometric Mean		

Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved
2015			2015		
2016			2016		
2017			2017		
2018			2018		
2019			2019		
2020			2020		
2021			2021		
2022			2022		
2023			2023		
2024			2024		
2025			2025		
Geometric Mean			Geometric Mean		

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kWh 10 Customer Class: Is the customer class billed on consumption (kWh) or demand (kW or kVA)? Consumption (kWh) per Customer
Actual Calendar Year Customers Consumption (kWh) (3) (for 2021 Cost of Service Actual (Weather actual) Weather-normalized Weather-normalized Weather-normalized (Weather actual) 2015 Historical Actual Actual Actual Historical 2016 Actual OEB-approved Actual OEB-approved Actual OEB-approved

Actual

Actual

Forecast

Forecast

Forecast

Forecast

Forecast

Forecast

Forecast

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015			2015			2015		
Historical	2016			2016			2016		
Historical	2017			2017			2017		
Historical	2018			2018			2018		
Bridge Year	2019			2019			2019		
Bridge Year	2020			2020			2020		
Test Year	2021			2021			2021		
Test Year	2022			2022			2022		
Test Year	2023			2023			2023		
Test Year	2024			2024			2024		
Test Year	2025			2025			2025		
	Geometric Mean			Geometric Mean			Geometric Mean		

Actual

Actual

Forecast

Forecast

Forecast

Forecast

Forecast

Forecast

Forecast

	Calendar Year	1	R	evenues			Demand (kWh)			Dema	nd (kWh) per Cu	stomer	
	(for 2021 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2015	Actual			Actual					Actual				
Historical	2016	Actual		OEB-approved	Actual			OEB-approved		Actual			OEB-approved	
Historical	2017	Actual			Actual					Actual				
Historical	2018	Actual			Actual					Actual				
Bridge Year	2019	Forecast			Forecast					Forecast				
Bridge Year	2020	Forecast			Forecast					Forecast				
Test Year	2021	Forecas	:		Forecast					Forecast				
Test Year	2022	Forecast			Forecast					Forecast				
Test Year	2023	Forecast			Forecast					Forecast				
Test Year	2024	Forecast			Forecast					Forecast				
Test Year	2025	Forecast			Forecast					Forecast				

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB- approved
Historical	2015			2015			2015		
Historical	2016			2016			2016		
Historical	2017			2017			2017		
Historical	2018			2018			2018		
Bridge Year	2019			2019			2019		
Bridge Year	2020			2020			2020		
Test Year	2021			2021			2021		
Test Year	2022			2022			2022		
Test Year	2023			2023			2023		
Test Year	2024			2024			2024		
Test Year	2025			2025			2025		
	Geometric Mean			Geometric Mean			Geometric Mean		

2017

2018

2019

2020

2021

2022

2023

2024

2025

Actual

Actual

Forecast

Forecast

Forecast

Forecast

Forecast

Forecast

Historical

Historical

Bridge Year

Bridge Year

Test Year

Test Year

Test Year

Test Year

Test Year

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Electric | Gas | Water information collection, analysis and application.

2019 Long-Term Electric Energy and Demand Forecast

Hydro Ottawa

Submitted to:

Hydro Ottawa Ottawa, Ontario

Submitted by:

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March 2020

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1 Overview

Itron, Inc. recently completed the 2020 to 2025 Hydro Ottawa sales and energy forecast. The forecast is based on actual sales, customer, and purchase data through December 2019. Forecasts are derived for rate class sales, customers, billing demands, system purchases and system peak demand. This document presents forecast results, assumptions, and an overview of the forecast methodology.

Hydro Ottawa serves approximately 311,500 residential customers and 28,300 nonresidential customers. Total 2019 sales equaled 7,241 GWh with a system peak of 1,398 MW. Residential customer class accounts for approximately 31% of system sales, small commercial 10% of sales (less than 50 kW), medium commercial customers 34% of sales (50 kW to 1,000 kW), and large commercial and industrial (greater than 1,000 kW) 24% of sales; Street lighting, municipal, and DCL account for remaining sales.

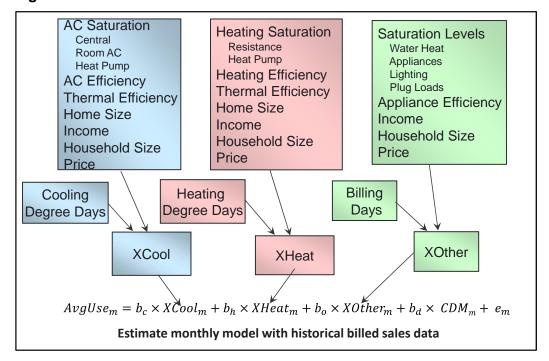
Over the last five years economic growth has been relatively steady with GDP averaging 2.1% annual growth; employment has been averaging 1.3% annual growth and population 1.6% per year annual growth. Yet despite this growth, electricity sales have been declining; weather-normalized sales averaged 0.7% decline between 2014 and 2019. Residential sales have declined 0.1% even while adding 25,000 customers over this period. The largest decline in sales is in the nonresidential rate classes where sales have been falling 1.0% per year.

Improvements in energy efficiency are a significant contributor to decline in electric sales. New end-use standards, improvements in thermal shell integrity, and energy-efficiency program activity (CDM) have more than compensated for increase in regional population growth and business activity. To capture the efficiency trends, forecasts for the residential and commercial rate classes are estimated using a Statistically Adjusted End-Use Models (SAE) modeling framework. The modeling approach entails explicitly incorporating end-use energy intensity trends as well as population growth, economic activity, and weather conditions into the constructed monthly model variables for cooling (XCool), heating (XHeat), and other uses (XOther). Figure 1 shows the general residential SAE modeling framework.

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Figure 1: Residential SAE Model Framework



Estimated SAE model coefficients – b_c , b_h , and b_o calibrate end-use load estimates (XCool, XHeat, and XOther) to actual billed customer usage. Estimated monthly CDM savings are included as a separate variable to capture program efficiency impacts not captured by end-use intensities. Projections of end-use intensities, economic activity, weather conditions, and CDM drive monthly average use. Residential sales are estimated by combining average use forecast with residential customer forecast. A similar SAE specification is used for the commercial rate classes, but models are estimated using total sales rather than average use.

The forecast is derived from monthly regression models estimated for both rate classes and system peak; system purchases are derived by applying an average loss factor to rate-class sales forecast. Rate class sales, and customer forecast models are estimated for the following rate classes.

- Residential
- GS50 (less than 50 kW)
- GS1000 (50 kW 1000 kW)
- GS1500 (1000 kW to 1500 kW)
- GS5000 (1500 kW to 5000 kW)
- Large Users (5000 kW plus)
- Street Lighting
- MU
- DCL

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Residential sales forecast is derived as the product of average use and customer forecast. The commercial and other customer classes are based on total sales models. Models are estimated with monthly sales beginning in 2013. Starting in 2013, Hydro Ottawa changed the method used in estimating monthly customer class sales. The new method significantly improved the historical data series that in turn allows us to estimate relatively strong statistical-based sales forecast models. Table 1 shows the rate class sales forecast.

Table 1: Rate Class Forecast

				Class Sales	s Forecast (MWh)				
Year	Res	GS 50	GS 1000	GS I 50- 1000kW	GS 1000- 1500kw	GS 1500- 5000kw	Large Users	Street Lght	MU	DCL
2013	2,256,550	720,479	1,556,240	1,106,483	343,409	857,551	613,514	44,767	17,055	3,407
2014	2,241,046	714,941	1,472,036	1,120,521	333,082	872,269	607,321	44,364	16,413	3,516
2015	2,242,518	723,755	1,392,724	1,181,623	374,916	867,663	564,804	45,152	15,998	3,492
2016	2,260,336	733,312	1,328,249	1,208,311	385,291	805,584	588,873	45,206	15,659	3,547
2017	2,188,889	712,369	1,259,105	1,214,651	399,393	753,196	606,157	38,204	15,230	3,630
2018	2,318,157	727,991	1,255,925	1,256,092	426,660	723,849	608,578	31,723	14,861	3,933
2019	2,263,478	724,441	1,185,637	1,303,050	392,965	723,018	602,083	26,731	14,550	4,923
2020	2,254,425	707,565	1,130,274	1,321,227	386,744	701,742	588,827	24,063	14,105	4,993
2021	2,252,938	699,870	1,080,526	1,351,425	385,754	682,921	574,291	22,108	13,601	4,993
2022	2,273,819	699,135	1,041,854	1,394,293	386,993	682,300	572,889	21,224	13,131	4,993
2023	2,299,366	697,637	1,003,314	1,437,626	388,277	682,504	572,034	20,413	12,663	4,993
2024	2,333,197	697,775	967,025	1,484,412	390,553	684,408	572,834	19,602	12,194	4,993
2025	2,353,150	695,838	926,027	1,525,262	391,593	683,533	570,390	18,855	11,727	4,993

System purchase and peak demand forecast are driven by underlying sales forecast. Purchases are calculated as the product of the total sales forecast and monthly adjustment factors that reflect both system losses and timing between monthly sales estimates and monthly purchases. The system peak forecast is derived from a monthly regression model that relates peak demand to heating, cooling, and base-use loads and peak-day weather conditions. Heating, cooling, and base-use load estimates are derived from the rate class sales forecasts. Table 2 shows actual sales, purchases, and peak demand through 2019 and forecast starting in 2020.

Table 2: System Forecast

Year	Total Sales (MWh)	chg	System Purchases (MWh)	chg	Peak Demand (MW)	chg
2013	7,519,455	Ciig	7,722,175	CIIE	1,427	CIIE
2014	7,425,509	-1.2%	7,636,154	-1.1%	•	-8.6%
2015	7,412,645	-0.2%	7,622,794	-0.2%	1,392	6.7%
2016	7,374,368	-0.5%	7,600,820	-0.3%	1,407	1.1%
2017	7,190,824	-2.5%	7,410,784	-2.5%	1,369	-2.7%
2018	7,367,769	2.5%	7,612,656	2.7%	1,481	8.2%
2019	7,240,876	-1.7%	7,458,493	-2.0%	1,398	-5.6%
2020	7,133,965	-1.5%	7,353,252	-1.4%	1,458	4.3%
2021	7,068,427	-0.9%	7,285,713	-0.9%	1,452	-0.4%
2022	7,090,631	0.3%	7,308,596	0.3%	1,460	0.6%
2023	7,118,827	0.4%	7,337,656	0.4%	1,468	0.5%
2024	7,166,993	0.7%	7,387,271	0.7%	1,480	0.8%
2025	7,181,368	0.2%	7,402,111	0.2%	1,487	0.5%
2013-19		-0.6%		-0.6%		-0.2%
2020-25		0.1%		0.1%		0.4%

2 Forecast Data and Assumptions

2.1 Historical Class Sales and Energy Data

Rate class linear regression models are estimated using monthly billed sales and customer data from January 2013 through December 2019. Prior to 2013 the monthly billed sales data is a poor measure of what was actually used during the calendar month; unbilled sales estimates were significantly improved beginning in 2013. In the prior rate-case forecast, the poor rate class data quality required us to calibrate initial rate class sales forecast to a monthly purchase sales forecast. In this forecast there is no calibration process as there is enough historical monthly rate class sales data that is consistent with monthly weather conditions to estimate relatively strong statistical-based models.

System peak demand forecast is based on reported monthly peaks from January 2013 to December 2019. While demand data is available prior to 2013, as this year's is a total "bottom-up" forecast driven by rate class forecast, there is no need for demand data prior to this point. System purchases are not directly used in the forecast. System purchases are used

to calculate average monthly "loss" factors based on the historical relationship between monthly purchases and retail sales over the four-year period 2015 to 2018.

2.2 Weather Data

Actual and normal Heating Degree Days (HDD) and Cooling Degree Days (CDD) are calculated from daily average temperature and dew point data for Ottawa. Generally, degree-days are expressed with a basis of 18 degrees Celsius. We found we can improve on the forecast model statistical fit by defining HDD with 13 degree-day bases as there is little heating when temperatures are above 13 degrees. Between 13 degrees and 18 degrees there is little heating or cooling. Figure 2 illustrates this point.

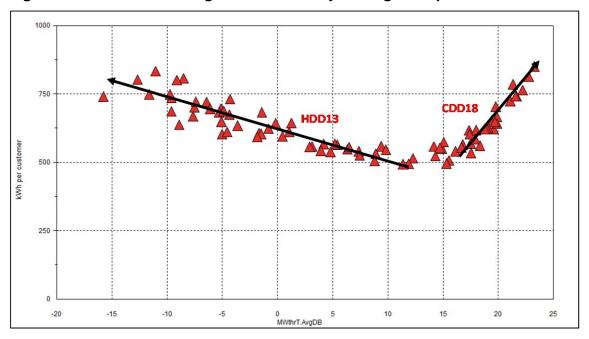


Figure 2: Residential Average Use vs Monthly Average Temperature

Normal monthly degree-days are calculated as an average of monthly degree-days over the past twenty years – 1999 through 2018.

Peak-Day Weather Variables

Monthly peak-day HDD and TDD (temperature-humidity based degree-days) are used in forecasting peak demand. Peak-day degree-days are based on the average daily temperature and dew point that occurs on the day of the monthly peak. TDD is a two-day weighted temperature as we found prior-day temperature has a significant impact on demand. The weights are 55% for the day of the peak and 45% for the day prior to the peak.

The appropriate breakpoints for the HDD and weighted TDD variables are determined by evaluating the relationship between monthly peak and the peak-day average temperature as shown in Figure 3.

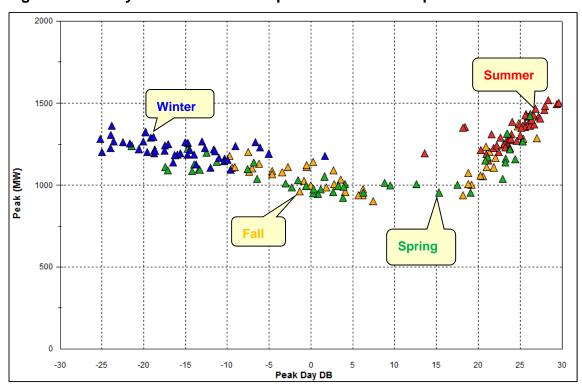


Figure 3: Monthly Peak Demand /Temperature Relationship

From the scatter plot (and initial regression models) the "best" fit TDD variable is where TDD is defined with a THI base of 13 degrees and the best breakpoint for calculating the peak-day HDD variable is 10 degrees.

Normal peak-day HDD and TDD are derived as a twenty-year average using a *rank and average* approach. This approach entails first finding the highest HDD and TDD that occurred in each month over the last twenty years (1999 to 2018), and within each year ranking the degree-days from the highest to the lowest value so that there are 12 monthly ranked HDD and TDD in each year. The ranking across the years are then averaged effectively generating peak-weather TDD and HDD duration curves with 12 average values. The ranked-average TDD and HDD are assigned to specific months based on that peakmonth TDD or HDD is most likely to occur. The highest weighted TDD is assigned to July, the next highest August, the third highest June, and so forth. The highest HDD value is assigned to January, the next highest to February, the third highest to December, and so forth.

2.3 Economic Data

Rate class sales forecasts are based on the Conference Board's November 2019 economic forecast for the Ottawa and Gatineau area. The primary economic drivers are population, real personal income (RPI), GDP, and Employment. Table 3 shows the historical and forecasted economic drivers.

Table 3: Ottawa Regional Economic Forecast

Year	Population (000's)	Chg	GDP (Millions \$)	Chg	RPI (Millions \$)	Chg	Employment (000's)	Chg
2013	1,315		70,088	<u>B</u>	50,178	<u></u>	695.6	08
2014	1,326	0.9%	70,990	1.3%	49,675	-1.0%	706.9	1.6%
2015	1,337	0.8%	72,419	2.0%	50,919	2.5%	711.0	0.6%
2016	1,358	1.6%	73,856	2.0%	51,828	1.8%	718.8	1.1%
2017	1,385	2.0%	75,829	2.7%	53,020	2.3%	726.3	1.0%
2018	1,414	2.1%	77,674	2.4%	54,242	2.3%	739.5	1.8%
2019	1,439	1.7%	78,927	1.6%	55,483	2.3%	753.9	1.9%
2020	1,459	1.4%	80,431	1.9%	56,103	1.1%	758.9	0.7%
2021	1,478	1.3%	81,890	1.8%	56,926	1.5%	765.0	0.8%
2022	1,497	1.3%	83,458	1.9%	58,170	2.2%	776.5	1.5%
2023	1,516	1.3%	85,010	1.9%	59,532	2.3%	788.4	1.5%
2024	1,535	1.3%	86,591	1.9%	60,888	2.3%	800.5	1.5%
2025	1,555	1.3%	88,218	1.9%	62,320	2.4%	813.0	1.6%
2013-20		1.5%		2.0%		1.6%		1.3%
2020-25		1.3%		1.9%		2.1%		1.4%

2.4 Appliance Saturation and Efficiency Trends

End-use intensities are calculated from end-use saturation estimates (the share of homes that own a specific appliance) and measure of equipment efficiency. As saturation increases, energy intensity increases. As efficiency improves end-use intensity decreases. Declining customer average use is largely attributable to efficiency gains that have been stronger then increases in end-use saturations. Starting residential end-use intensity estimates are based on the Energy Information Administration (EIA) historical and projected end-use saturation, stock efficiency and appliance usage data from the 2019 Annual Energy Outlook (AEO). The AEO forecast is based on the National Energy Modeling System (NEMS) which includes end-use forecast modules for the residential and commercial sectors. Residential data derived from NEMS database include:

- End-use consumption
- End-use stock energy efficiency (for some measures and UECs for others)
- End-use appliance stock (number of existing units)
- End-use saturation (calculated from number of units and number of households).

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EIA develops end-use forecasts for nine census division. The end-use intensity forecasts are based on the Mid-Atlantic Census Division which includes New York. Intensities are modified to reflect Ontario end-use saturation trends; historical and forecasted end-use saturations are calibrated to reported saturation data from Natural Resources Canada for Ontario (NRCan). We assume that the end-use average stock efficiency in Hydro Ottawa's service territory is similar to that of the Mid-Atlantic Census Division.

Figure 4 shows the resulting end-use intensities aggregated to Heating, Cooling, and Other Use. Figure 5 gives a breakdown of Other Use by end-use detail.

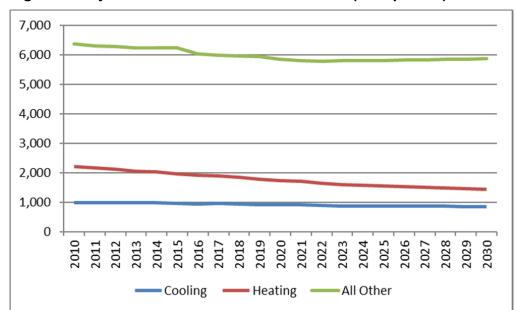


Figure 4: Major Residential End-Use Intensities (kWh per HH)

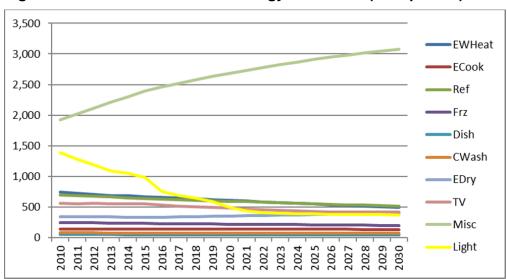
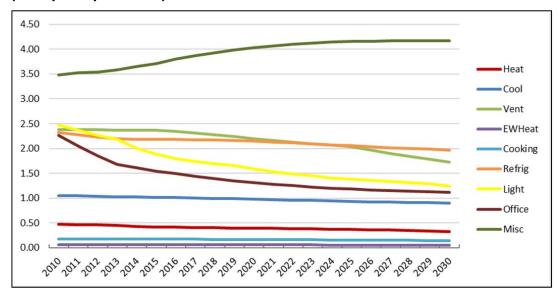


Figure 5: Residential Other Use Energy Intensities (kWh per HH)

End-use intensities are generally declining as efficiency is increasing faster than appliance ownership. Most end-uses intensities change slowly over time as appliances are replaced with more efficient options. The exceptions are lighting and miscellaneous which are also the two largest end-uses. Lighting intensity has declined sharply over the past 5 years with the phase-in of new lighting standards and increase in LED market share. Miscellaneous sales growth has been countering some of the impact of declining lighting use; miscellaneous includes everything from home electronics to electric outdoor equipment.

EIA provides commercial end-use forecast by building type. There are 11 building types and 9 end-uses. End-use data includes consumption and square footage. Commercial end-use intensities are derived by dividing commercial end-use consumption by square footage. Other than the miscellaneous end-use, commercial end-use energy intensities are either flat or declining. Figure 6 shows commercial end-use intensity trends.

Figure 6: Historical and Projected Commercial End-Use Intensities (kWh per square foot)



2.5 Conservation and Demand Management (CDM)

End-use intensity projections also reflect regional conservation activity. EIA model's efficiency program impacts by reducing the costs (through "rebates") of the more efficient technology options. For Ottawa, sales and average use decline even faster than that reflected in the end-use intensity projections. Differences is likely due to more CDM activity than that embedded in the estimated model and end-use intensity trends. To capture additional CDM savings, cumulative CDM savings are included as a model variable. Historical and forecasted CDM are estimated for each rate class. Cumulative CDM forecast is summarized in Table 4.

Table 4: CDM Forecast

Cumulative CDM Saving (MWh)								
Year	Residential	Small Commercial	Commercial	Street Light				
2020	11,137	19,564	128,540	4,945				
2021	14,747	23,948	144,582	5 <i>,</i> 756				
2022	15,239	28,333	160,623	6,566				
2023	15,731	32,717	176,665	7,377				
2024	16,223	37,102	192,706	8,188				
2025	16,715	41,486	208,748	8,999				

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3 Forecast Methodology

3.1 Class Sales Forecast

Changes in economic conditions, weather conditions, end-use energy intensity trends, and CDM drives electricity use and demand through a set of monthly rate class regression models. Models are estimated for the following rate classes:

- Residential
- GS50 (Less than 50 kW)
- GS1000 (50 kW 1000 kW)
- GS1500 (1000 kW 1500 kW)
- GS5000 (1500 KW 5000 kW)
- Large Users (Over 5000 kW)
- Street Lighting
- MU
- DCL

3.1.1 Residential Model

The residential monthly sales forecast is derived as the product of the average use and customer forecast. The forecast captures population and income growth as well improvements in energy efficiency through an SAE model specification.

Average Use Forecast

Residential average use is modeled as a function of heating requirements (XHeat), cooling requirements (XCool), and other use (XOther). Cumulative CDM savings are incorporated to capture program savings not captured in the end-use model variables. The general specification for the average use model is:

$$AvgUse_m = B_0 + (B_1 \times XHeat_m) + (B_2 \times XCool_m) + (B_3 \times XOther_m) + (B_4 \times CDMPerCust_m) + e_m$$

Model variables – Xheat, XCool, and XOther account for both economic activity and improvements in end-use efficiency. XHeat for month m is calculated as:

$$XHeat_m = HDDIdx_m \ x \ IncIdx^{0.15}_m \ x \ HeatIntensity_a$$

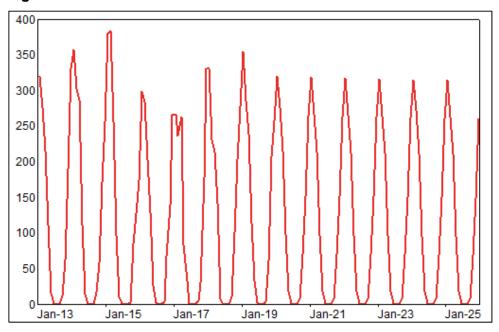
Where

• $HDDIDX_m$ = an index of monthly actual and normal HDD

- $IncIdx_m$ = indexed per capita income (a 0.15 elasticity is applied to capture small impact on heating use)
- $HeatIntensity_a$ = annual end-use heating intensity trend (kWh per household)

As *HeatIntensity* is measured in kWh and HDD and Income are indexed, the result is an estimate of historical and forecasted monthly heating kWh use. Figure 7 shows the calculated XHeat variable.

Figure 7: Residential XHeat Variable



XCool is derived in a similar manner:

 $XCool_m = CDDIdx_m x IncIdx^{0.15}_m x CoolIntensity_a$

Where

- $CDDIDX_m$ = an index of monthly actual and normal CDD
- $IncIdx_m$ = indexed per capita income (a 0.15 elasticity is applied to capture small impact on heating use)
- $CoolIntensity_a$ = annual end-use cooling intensity trend (kWh per household)

Figure 8 shows the calculated XCool variable.

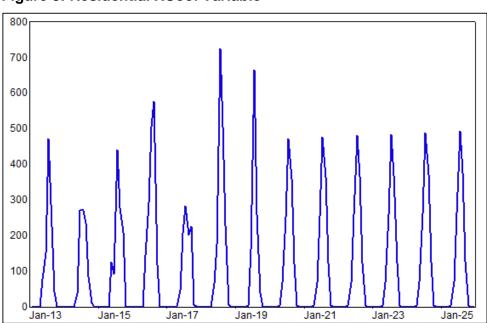


Figure 8: Residential XCool Variable

XOther captures non-weather sensitive end-use

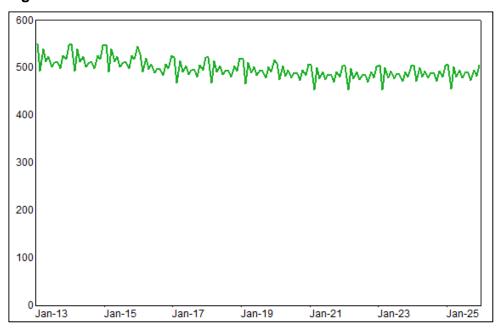
 $XOther_m = DaysIdx_m \ x \ IncIdx^{0.15}_m \ x \ OtherIntensity_a \ x \ MonthlyMultiplier_m$

Where

- $DaysIdx_m =$ an index for the number of days per month
- $IncIdx_m$ = indexed per capita income (a 0.15 elasticity is applied to capture small impact on heating use)
- OtherIntensity_a= annual non-weather sensitive end-use intensity trend (kWh per household)
- $MoMultiply_m$ = monthly end-use usage fraction (fraction of annual usage)

Figure 9 shows the calculated XOther variable.

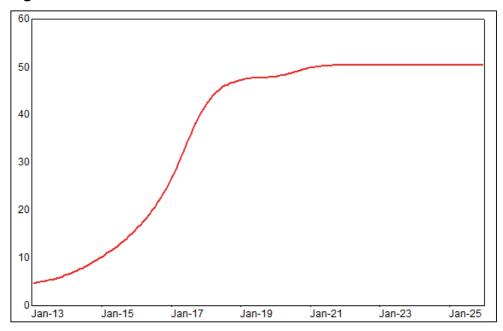
Figure 9: Residential XOther Variable



The monthly pattern reflects both estimated number of days and relative amount of end-use energy use across the months. More lighting and water heating load occur in the winter months than summers months and slightly more refrigeration and freezer loads occur in the summer months than winter months.

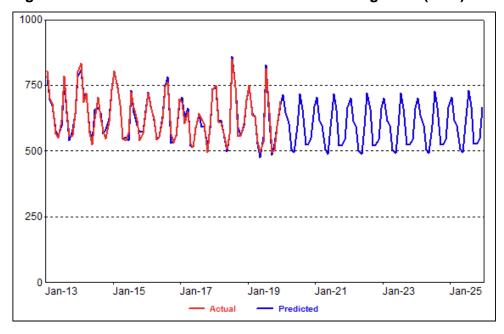
Cumulative CDM starts in 2013 at an estimated average per customer 5 kWh per month (60 kWh per year) and increases to 48 kWh per month (576 kWh per year) by 2019. Projected CDM growth slows considerably after 2019 reaching 50 kWh per month by 2021. Figure 10 shows the residential per customer CDM projections.

Figure 10: Residential Per Customer CDM



Residential average use model is estimated as a function of Cooling, Heating, Other Use, and CDM per customer savings over the period January 2013 through December 2019. The model is used in generating average use forecast through December 2025. Figure 11 shows actual and predicted average use.

Figure 11: Actual and Predicted Residential Average Use (kWh)



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The estimated model explains historical sales well with an Adjusted R-Squared of 0.96 and a mean absolute percent error (MAPE) of 2.0%. The model variables are all strongly statistically significant. The model also includes binary variables for March, April, May, and November and shifts in usage in 2015 and 2016 that can't be explained by available data. Estimated model coefficients, coefficient statistics, and model statistics are included in Appendix A.

Customer Forecast

The customer forecast is based on a monthly regression model that relates number of customers to population projections; the correlation between number of customers and population is extremely high at 0.98. Monthly binaries are included to capture small variation in monthly customer counts.

Figure 12 shows actual and predicted customers.

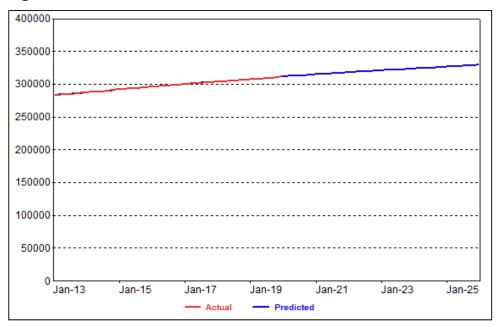


Figure 12: Actual and Predicted Residential Customer

While number of customers continue to increase, the rate of growth is slowing along with the population. Over the last five years Hydro Ottawa added on average 3,950 new customers per year down from 4,430 customers per-year in the prior five-year period. Based on population projections, customer growth is expected to increase approximately 3,000 per year over the next five years.

Sales Forecast

The residential sales forecast is the product of average use and customer forecast. Table 5 shows annual average use, customer, and resulting sales forecast. Forecast begins in 2020.

Table 5: Residential Forecast

Residential Forecast								
	Average Use				Sales			
Year	(kWh)	chg	Customers	chg	(MWh)	chg		
2013	7,919		284,964		2,256,550			
2014	7,744	-2.2%	289,385	1.6%	2,241,046	-0.7%		
2015	7,631	-1.5%	293,884	1.6%	2,242,518	0.1%		
2016	7,585	-0.6%	298,001	1.4%	2,260,336	0.8%		
2017	7,252	-4.4%	301,839	1.3%	2,188,889	-3.2%		
2018	7,591	4.7%	305,390	1.2%	2,318,157	5.9%		
2019	7,321	-3.6%	309,165	1.2%	2,263,478	-2.4%		
2020	7,200	-1.7%	313,134	1.3%	2,254,425	-0.4%		
2021	7,122	-1.1%	316,346	1.0%	2,252,938	-0.1%		
2022	7,119	0.0%	319,386	1.0%	2,273,819	0.9%		
2023	7,134	0.2%	322,306	0.9%	2,299,366	1.1%		
2024	7,176	0.6%	325,150	0.9%	2,333,197	1.5%		
2025	7,175	0.0%	327,975	0.9%	2,353,150	0.9%		
2013-19		-1.3%		1.4%		0.1%		
2020-25		-0.1%		0.9%		0.9%		

3.1.2 Commercial Forecast Models

Like the residential model, the commercial SAE sales models express monthly sales as a function of heating requirements (XHeat), cooling requirements (XCool), other use (XOther), and CDM sales. Hydro Ottawa has multiple commercial rate classes that are defined by customer demand requirements. While separate sales forecast models are estimated for each rate class, the model structure is basically the same:

 $ComSales_m = B_0 + B_1XHeat_m + B_2XCool_m + B_3XOther_m + B_4CDM_m + e_m$

- $XHeat_m = EI_{heat} \times EconVar_m \times HDD_m$
- $XCool_m = EI_{cool} \times EconVar_m \times CDD_m$
- $XOther_m = EI_{other} \times EconVar_m$

Where:

EI = Annual energy intensity (kWh per square feet)

EconVar_m = Economic driver for month m

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The commercial end-use intensities (EI) are aggregated into heating, cooling, and other use; intensities incorporate both end-use saturation increases and improvements in efficiency. The economic variable (EconVar_m) is weighted between population and GDP. Population captures increase in market size and GDP overall business activity. Employment was also evaluated as model driver but provided no additional information than that captured by population and GDP growth. The weights are slightly different for small commercial and large commercial rate classes; the weights are equal for the small commercial rate class with higher weighting on GDP for the larger rate classes:

• $SmlEconVar_m = Pop_m^{0.5} \times GDP_m^{0.5}$ • $LrgEconVar_m = Pop_m^{0.2} \times GDP_m^{0.8}$

The weights are determined by evaluating out of sample model fit statistics for different sets of weight. The variables are geometrically weighted as population and GDP are measured on different scales.

Commercial sales models are estimated over the period January 2013 to December 2019. The model in-sample fits are relatively strong with Adjusted R-Squared ranging from 0.88 to 0.94 and MAPEs of 1.6% to 2.7%

Since 2013, GS1000 customers have been migrating to interval metering; interval metered customers (GS1000I) are priced with a different billing structure than non-interval customers (GS1000NI). A simple trend-based share model is used to disaggregate sales between the two services.

Figure 13 shows actual and predicted (declining) share of non-interval sales.

0.800 0.700 0.600 0.500 0.400 0.300 0.200 0.100 0.000 Jan-13 Jan-15 Jan-17 Jan-19 Jan-21 Jan-23 Jan-25 - Actual - Predicted

Figure 13: Actual and Predicted GS1000NI Share

Forecast for GS1000NI sales are derived as the product of the non-interval share and GS1000 sales forecast. Forecast for GS1000I is calculated as GS1000 sales forecast less GS1000NI sales forecast.

Figure 14 to

Figure 17 shows actual and predicted sales for the commercial rate classes. Estimated model coefficients and model statistics are included in Appendix A. Model predicted results include CDM except for the GS1500 and GS5000 rate classes. For GS1500, GS5000, Large Users, MU and Street Lighting CDM adjustments are made by subtracting future CDM savings from the model predicted results.

Figure 14: Actual and Predicted GS50 Sales (MWh)

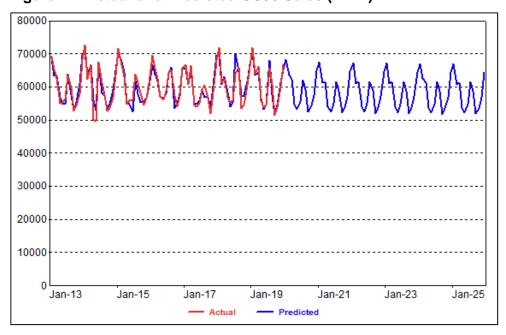


Figure 15: Actual and Predicted GS1000 Sales (MWh)

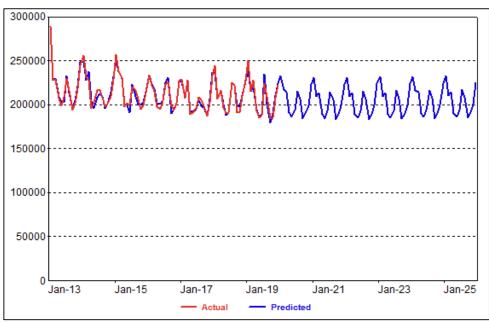
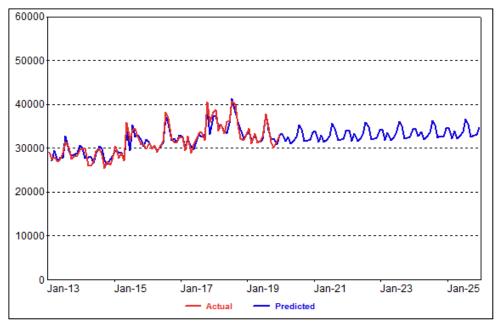
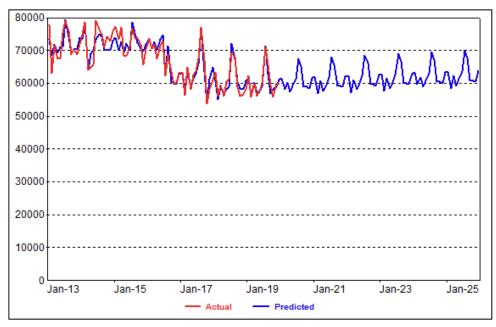


Figure 16: Actual and Predicted GS1500 Sales (MWh)



^{*} Predicted value excludes the impact of CDM, adjustment made outside of model

Figure 17: Actual and Predicted GS5000 Sales (MWh)



^{*} Predicted value excludes the impact of CDM, adjustment made outside of model

Table 6 shows annual commercial sales forecast, adjusted for future CDM.

Table 6: Commercial Sales Forecast

	Class Sales Forecast (MWh)							
Year	GS 50	chg	GS 1000	chg	GS 1500	chg	GS 5000	chg
2013	720,479		2,662,723		343,409		857,551	
2014	714,941	-0.8%	2,592,557	-2.6%	333,082	-3.0%	872,269	1.7%
2015	723,755	1.2%	2,574,347	-0.7%	374,916	12.6%	867,663	-0.5%
2016	733,312	1.3%	2,536,560	-1.5%	385,291	2.8%	805,584	-7.2%
2017	712,369	-2.9%	2,473,756	-2.5%	399,393	3.7%	753,196	-6.5%
2018	727,991	2.2%	2,512,017	1.5%	426,660	6.8%	723,849	-3.9%
2019	724,441	-0.5%	2,488,687	-0.9%	392,965	-7.9%	723,018	-0.1%
2020	707,565	-2.3%	2,451,501	-1.5%	386,744	-1.6%	701,742	-2.9%
2021	699,870	-1.1%	2,431,951	-0.8%	385,754	-0.3%	682,921	-2.7%
2022	699,135	-0.1%	2,436,147	0.2%	386,993	0.3%	682,300	-0.1%
2023	697,637	-0.2%	2,440,940	0.2%	388,277	0.3%	682,504	0.0%
2024	697,775	0.0%	2,451,437	0.4%	390,553	0.6%	684,408	0.3%
2025	695,838	-0.3%	2,451,289	0.0%	391,593	0.3%	683,533	-0.1%
2013-19		0.1%		-1.1%		2.5%		-2.7%
2020-25		-0.3%		0.0%		0.2%		-0.5%

Separate models are estimated for commercial customers. GS50 customers are driven by the number of residential customers as the correlation between GS50 customers and residential customers is 0.97. A simple linear trend model is used to forecast customers for the GS1000 rate classes (non-interval and interval-meter classes) as customers have been migrating from non-interval rate class to the interval rate class. There has been no increase in the number of GS1500 and GS5000 customers; customer forecast is held constant at current levels. Table 7 shows the commercial customer forecast.

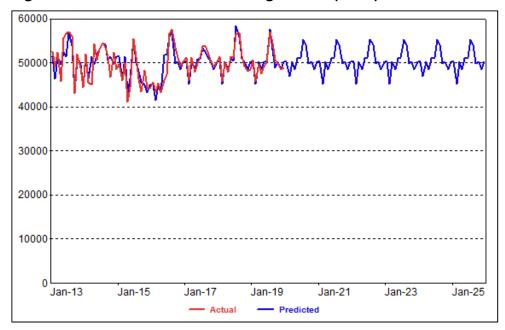
Table 7: Commercial Customer Forecast

Year	GS 50	chg	GS 1000	chg	GS 1500	chg	GS 5000	chg
2013	23,936		3,349		59		76	
2014	23,968	0.1%	3,453	3.1%	61	3.4%	87	14.5%
2015	24,392	1.8%	3,261	-5.6%	65	6.6%	79	-9.2%
2016	24,623	0.9%	3,144	-3.6%	64	-1.5%	72	-8.9%
2017	24,786	0.7%	3,147	0.1%	69	7.8%	74	2.8%
2018	24,926	0.6%	3,152	0.2%	71	2.9%	68	-8.1%
2019	25,030	0.4%	3,112	-1.3%	69	-2.8%	67	-1.5%
2020	25,200	0.7%	3,073	-1.3%	73	5.8%	68	1.5%
2021	25,391	0.8%	3,047	-0.8%	73	0.0%	68	0.0%
2022	25,554	0.6%	3,012	-1.1%	73	0.0%	68	0.0%
2023	25,704	0.6%	2,976	-1.2%	73	0.0%	68	0.0%
2024	25,846	0.6%	2,940	-1.2%	73	0.0%	68	0.0%
2025	25,987	0.5%	2,903	-1.3%	73	0.0%	68	0.0%
2013-19		0.7%		-1.2%		2.7%		-1.7%
2020-25		0.6%		-1.1%		0.0%		0.0%

3.1.3 Other Rate Classes: Large Users, Street Lighting, MU, DCL

Generalized econometric models are estimated for Large Users, as well as the Street Lighting, MU, and DCL. The Large User class includes Hydro Ottawa's eleven largest customers. Large User sales have been relatively constant since 2016. We assume that sales continue at this level over the next five years. Figure 18 shows actual and predicted large user sales.

Figure 18: Actual and Predicted Large Users (MWh)



^{*} Predicted value excludes the impact of CDM, adjustment made outside of model

Street Lighting sales have been declining as part of lamp efficiency improvements. The forecast is derived by holding current street lighting sales constant and then adjusting for expected savings from further CDM street lighting activity. Figure 19 and Figure 20 show model results and forecast adjusted for additional CDM savings projections.

Figure 19: Actual and Predicted Street Light (MWh)

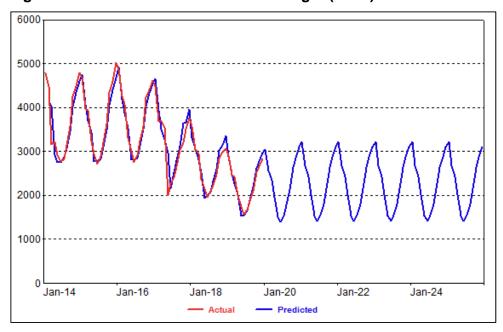
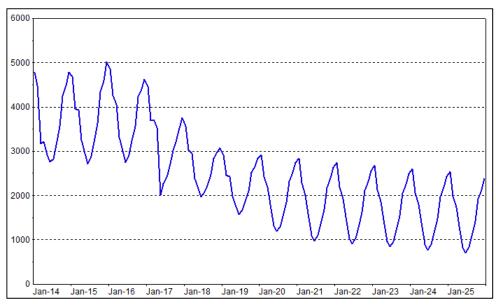


Figure 20: Street Light CDM Adjusted



The MU and DCL classes are both small rate classes with little sales. Given there is little information to explain sales trends, models are estimated with simple exponential smoothing models. The estimated model coefficients and model statistics are included in Appendix A. MU sales are adjusted for future CDM.

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3.1.4 Billing Demand Forecast

Several commercial rate classes include billing demand as well as sales and customer forecasts. Billing demand is a measure of a customer's highest hourly demand over the billing period. Monthly billing demand regression models are estimated for each rate class. Demands are modeled as a function of monthly sales and monthly binary variables. The models are estimated with actuals from January 2013 to December 2019. Table 8 shows rate class billing demand forecast.

Table 8: Class Demand Forecast

	Class Billing Demand (MW)											
Year	GS 1000 NI	Chg	GS 1000 I	Chg	GS 1500	Chg	GS 5000	Chg	Large Users	Chg	St Light	Chg
2013	387,717	Citg	254,033	City	70,296	Citg	191,749	CIIE	121,622	CIIE	10,344	CIIE
2013	357,675	-7.7%	232,563	-8.5%	65,093	-7.4%	•	-8.8%	102,709	-15.6%	,	0.0%
1	•		•		•		,		•		- / -	
2015	357,091	-0.2%	245,936	5.8%	79,880	22.7%	•	-3.0%	104,951	2.2%	•	4.5%
2016	355,176	-0.5%	264,544	7.6%	85,387	6.9%	165,417	-2.4%	104,754	-0.2%	10,665	-1.3%
2017	324,676	-8.6%	263,462	-0.4%	90,763	6.3%	179,137	8.3%	102,642	-2.0%	9,793	-8.2%
2018	342,355	5.4%	278,914	5.9%	88,992	-2.0%	173,017	-3.4%	104,001	1.3%	7,818	-20.2%
2019	288,388	-15.8%	289,047	3.6%	81,320	-8.6%	155,831	-9.9%	103,877	-0.1%	6,606	-15.5%
2020	274,479	-4.8%	285,282	-1.3%	77,147	-5.1%	142,531	-8.5%	100,489	-3.3%	5,873	-11.1%
2021	264,819	-3.5%	291,205	2.1%	77,120	0.0%	139,884	-1.9%	98,814	-1.7%	5,313	-9.5%
2022	257,330	-2.8%	299,008	2.7%	77,407	0.4%	140,051	0.1%	98,706	-0.1%	4,991	-6.1%
2023	249,962	-2.9%	306,779	2.6%	77,676	0.3%	140,198	0.1%	98,597	-0.1%	4,804	-3.7%
2024	242,511	-3.0%	314,611	2.6%	77,984	0.4%	140,364	0.1%	98,489	-0.1%	4,617	-3.9%
2025	235,832	-2.8%	322,574	2.5%	78,355	0.5%	140,597	0.2%	98,385	-0.1%	4,430	-4.1%
2013-19		-4.6%		2.3%		3.0%		-3.2%	•	-2.4%		-6.8%
2020-25		-3.0%		2.5%		0.3%		-0.3%		-0.4%		-5.5%

3.1.5 Adjustments for CDM

Estimated historical and forecasted CDM savings are directly incorporated into the estimated rate class sales forecast models; cumulative historical CDM are included as a separate model variable. In the residential average use model CDM is on a per customer basis and in the commercial models on a total MWh savings basis.

There are two reasons to include CDM as a model variable. First, adding CDM helps explain the declining customer usage and as a result improves on the model fit statistics. Second, it helps avoid double-counting savings. The SAE models already have strong efficiency built into the heating, cooling, and other use model variables; some the end-use improvements are due to CDM activity. The CDM coefficient reflect the CDM savings not already captured in the SAE model structure. If none of the CDM savings were captured by the SAE specification, we would expect the coefficient on CDM to be -1.0. If all the CDM impacts were already captured by the model the coefficient would be close to 0 or statistically insignificant.

In the residential model the CDM coefficient is -0.70. This implies that 30% of the CDM savings is already accounted for in the end-use intensity trends and estimated coefficients on

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the heating, cooling, and base-use variables. For the forecast period, 70 percent of future DSM savings will flow into the model-based forecast; 30% of remaining CDM savings is captured by the SAE specification. In the small commercial model, the coefficient on CDM is -1.06 and -1.15 in the GS1000 sales forecast model. The coefficients imply that the SAE structured variables are not accounting for CDM program savings. CDM coefficients are actually lower than -1.0 implying that estimates of rate class CDM sales are too low. This may be the result of the CDM allocation process to rate schedules – not enough CDM is allocated to the rate classes. The coefficient on the CDM variable in the GS1500 and GS5000 models are statistically insignificant; CDM was dropped as a model variable.

Sales impact from future CDM savings are derived by executing savings projections through the estimated model where CDM is included as a model variable and treated as in the past (subtracted from the forecast model estimate) for GS1500, GS5000, Street Lighting, and MU.

Figure 21 compares the forecast with and without CDM adjustments. Excluding additional CDM activity, sales are projected to average 0.6% annually between 2020 and 2025. CDM reduces annual sales growth by 0.5% over the next five years to 0.1%.

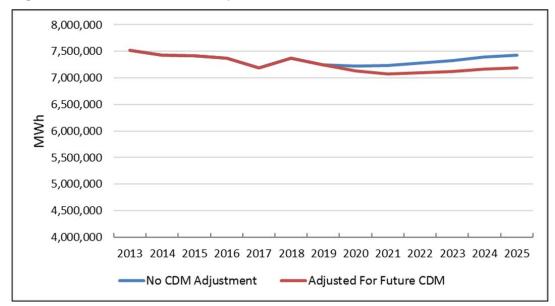


Figure 21: CDM Forecast Comparison

3.2 System Purchase and Peak Demand Forecast

System purchases are calculated by applying monthly adjustment factors to monthly sales forecast. The adjustment factors capture system losses and any differences in timing between estimated monthly sales and measured system purchases. The monthly adjustment factors are based on the historical relationship between purchases and sales between January 2015

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and December 2019. While there is some small monthly variation, the average adjustment factor is 1.03; the sales forecast is adjusted up three percent.

The system peak forecast is derived through a monthly regression model that relates monthly peak demand to heating, cooling, and base load requirements:

$$Peak_m = B_0 + B_1 Heat Var_m + B_2 Cool Var_m + B_3 Base Var_m + e_m$$

System peak is effectively driven by the purchase sales forecast. The model variables $(HeatVar_m, CoolVar_m, and BaseVar_m)$ incorporate changes in heating, cooling, and base-use energy requirements derived from the rate class sales forecast models as well as peak-day weather conditions. Efficiency impacts on peak are captured through the constructed model variables.

Heating and Cooling Model Variables

The variable *HeatVar*, is derived by combining peak-day HDD (*PkHDD*) with an estimate of monthly heating requirements (*HeatLoad*):

 $HeatVar_m = HeatLoad_m \times PkHDD_m$

Heatload is derived from the rate class sales forecast models as the product of the coefficient of the XHeat variable times XHeat for normal weather conditions:

 $HeatLoad_m = B_1 \times NrmXHeat_m$

The peak-day cooling variable is constructed in a similar manner. CoolVar is calculated as:

 $CoolVar_m = CoolLoad_m \times PkTDD_m$

Where

 $CoolLoad_m = B_2 \times NrmXCool_m$ (Derived from the estimated rate class models) PkTDDm = Peak-day THI degree-day

Figure 22 and Figure 23 show the peak model heating and cooling variables.

Figure 22: Peak XHeat Variable

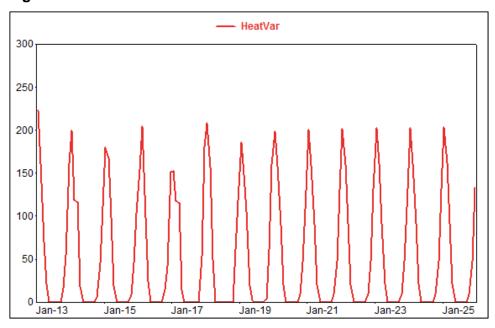
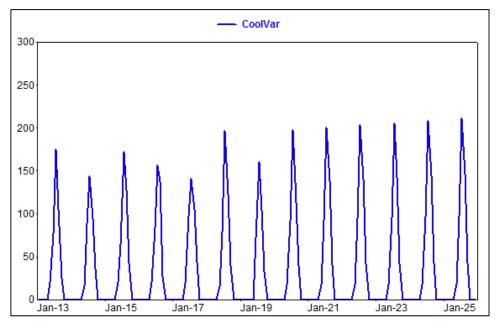


Figure 23: Peak XCool Variable



BaseVar Model Variable

BaseVar captures growth in non-weather sensitive usage at the time of the peak. It is again derived from the sales forecast models. BaseVar is calculated by subtracting weather-normal cooling and heating load requirements from weather normal total purchases and forecast.

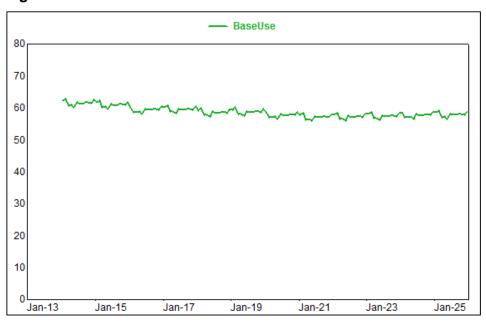
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 $BaseVar_m = WNSales_m - HeatLoad_m - CoolLoad_m$

BaseVar is expressed on an average monthly MW basis by dividing BaseVar by the number of hours in the month. Figure 24 shows the derived model variable BaseVar.

Figure 24: Peak Base Variable



In addition to the end-use variables, the peak model includes monthly binaries for several months to account for non-weather seasonal changes in demand and a shift variable to account for increase in demand after 2016. The model explains past variation relatively well with an adjusted R-squared is 0.87 with a MAPE of 2.9%. Model statistics are included in Appendix A. Figure 25 shows actual and predicted monthly system peak.

Figure 25: Actual and Predicted Peak Model (MW)

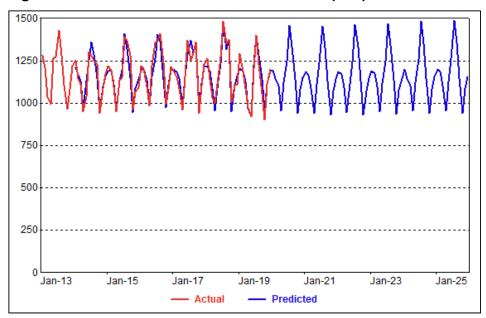


Table 9 shows system purchase and peak demand forecast.

Table 9: System Forecast

	System Purchases		Peak Demand	
Year	(MWh)	chg	(MW)	chg
2013	7,722,175		1,427	
2014	7,636,154	-1.1%	1,304	-8.6%
2015	7,622,794	-0.2%	1,392	6.7%
2016	7,600,820	-0.3%	1,407	1.1%
2017	7,410,784	-2.5%	1,369	-2.7%
2018	7,612,656	2.7%	1,481	8.2%
2019	7,458,493	-2.0%	1,398	-5.6%
2020	7,353,252	-1.4%	1,458	4.3%
2021	7,285,713	-0.9%	1,452	-0.4%
2022	7,308,596	0.3%	1,460	0.6%
2023	7,337,656	0.4%	1,468	0.5%
2024	7,387,271	0.7%	1,480	0.8%
2025	7,402,111	0.2%	1,487	0.5%
2013-19		-0.6%		-0.2%
2020-25		0.1%		0.4%

4 Appendix A: Model Statistics

System Peak Model

Variable	Coefficient	StdErr	T-Stat	P-Value
mEndUse.BaseUse	17.35	0.31	56.30	0.00%
mPkVars.HeatVar	0.65	0.14	4.65	0.00%
mPkVars.CoolVar	2.07	0.17	12.27	0.00%
mBin.Yr2016Plus	50.11	12.33	4.07	0.01%
mBin.Apr	-102.40	25.47	-4.02	0.02%
mBin.May	53.22	26.62	2.00	4.99%
mBin.Oct	-123.02	26.42	-4.66	0.00%
mBin.Sep17	181.96	51.28	3.55	0.07%
mBin.Sep18	223.46	51.31	4.36	0.01%
mBin.May19	-180.40	54.57	-3.31	0.16%

Model Statistics	
Adjusted Observations	72
Deg. of Freedom for Error	62
Adjusted R-Squared	0.873
Model Sum of Squares	1,217,662.51
Sum of Squared Errors	152,068.28
Mean Squared Error	2,452.71
Std. Error of Regression	49.52
Mean Abs. Dev. (MAD)	34.26
Mean Abs. % Err. (MAPE)	2.92%
Durbin-Watson Statistic	1.923

Residential Avg Use Model

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructRev.XHeatRes_AvgUse	0.68	0.0	32.19	0.00%
mStructRev.XCoolRes_AvgUse	0.52	0.0	33.46	0.00%
mStructRev.XOtherRes_AvgUse	1.03	0.0	90.38	0.00%
mBin.Mar	-30.03	7.1	-4.20	0.01%
mBin.Apr	-24.42	7.2	-3.39	0.11%
mBin.May	-33.44	7.5	-4.47	0.00%
mBin.Nov	-21.04	7.1	-2.98	0.39%
mBin.Yr15	-18.58	5.7	-3.25	0.18%
mBin.Yr16	-17.23	5.5	-3.14	0.25%
CDM.ResCDM_PC	-0.70	0.1	-5.93	0.00%

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	74
Adjusted R-Squared	0.964
Model Sum of Squares	652,097
Sum of Squared Errors	21,518
Mean Squared Error	291
Std. Error of Regression	17.05
Mean Abs. Dev. (MAD)	12.41
Mean Abs. % Err. (MAPE)	2.0%
Durbin-Watson Statistic	2.227

Residential Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Economics.Pop	6.45	2.35	2.75	0.77%
Res_Custs.LagDep(1)	0.96	0.02	64.20	0.00%
mBin.Jul14Plus	196.46	84.06	2.34	2.23%
mBin.Jan	4749.69	1322.28	3.59	0.06%
mBin.Feb	4498.44	1326.30	3.39	0.12%
mBin.Mar	4465.29	1326.57	3.37	0.13%
mBin.Apr	4480.07	1326.37	3.38	0.12%
mBin.May	4500.40	1326.39	3.39	0.12%
mBin.Jun	4608.76	1326.60	3.47	0.09%
mBin.Jul	4490.57	1317.53	3.41	0.11%
mBin.Aug	4570.91	1317.90	3.47	0.09%
mBin.Sep	4617.43	1319.24	3.50	0.08%
mBin.Oct	4727.68	1321.16	3.58	0.06%
mBin.Nov	4726.71	1324.49	3.57	0.07%
mBin.Dec	4634.61	1327.77	3.49	0.08%

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	69
Adjusted R-Squared	1
Model Sum of Squares	5,556,180,667.56
Sum of Squared Errors	1,198,806.39
Mean Squared Error	17,374.01
Std. Error of Regression	131.81
Mean Abs. Dev. (MAD)	89.55
Mean Abs. % Err. (MAPE)	0.03%
Durbin-Watson Statistic	1.948

GS 50 Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	20382.41	7266.7	2.81	0.63%
mStructRev.XOtherGS50	2597.19	609.3	4.26	0.01%
mStructRev.XHeatGS50	181414.90	7411.4	24.48	0.00%
mStructRev.XCoolGS50	23330.92	1510.4	15.45	0.00%
mBin.Jun14	10458.85	2004.9	5.22	0.00%
CDM.GS50	-1.06	0.4	-2.81	0.63%

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	78
Adjusted R-Squared	0.882
Model Sum of Squares	2,382,118,228
Sum of Squared Errors	298,386,024
Mean Squared Error	3,825,462
Std. Error of Regression	1,955.88
Mean Abs. Dev. (MAD)	1,413.07
Mean Abs. % Err. (MAPE)	2.37%
Durbin-Watson Statistic	1.706

GS 50 Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	9766.86	1964.53	4.97	0.00%
Res_Custs.Predicted	0.05	0.01	7.60	0.00%
AR(1)	0.93	0.04	22.36	0.00%

Model Statistics	
Adjusted Observations	83
Deg. of Freedom for Error	80
Adjusted R-Squared	0.993
Model Sum of Squares	14,075,934.34
Sum of Squared Errors	102,395.61
Mean Squared Error	1,279.95
Std. Error of Regression	35.78
Mean Abs. Dev. (MAD)	23.4
Mean Abs. % Err. (MAPE)	0.10%
Durbin-Watson Statistic	1.568

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GS 1000 Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	80136.99	17663.86	4.54	0.00%
mStructRev.XOtherGS1000	9652.91	1482.07	6.51	0.00%
mStructRev.XHeatGS1000	561587.66	18363.77	30.58	0.00%
mStructRev.XCoolGS1000	75654.60	3994.26	18.94	0.00%
mBin.Jan13	41155.31	4954.61	8.31	0.00%
mBin.Jul18	-15259.29	5327.04	-2.86	0.54%
CDM.GS1000	-1.151	0.102	-11.33	0.00%

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	77
Adjusted R-Squared	0.939
Model Sum of Squares	28,636,815,421
Sum of Squared Errors	1,710,831,503
Mean Squared Error	22,218,591
Std. Error of Regression	4,713.66
Mean Abs. Dev. (MAD)	3,492.57
Mean Abs. % Err. (MAPE)	1.65%
Durbin-Watson Statistic	1.896

GS 1000 NI Share Model

Variable	Coefficient	StdErr	T-Stat	P-Value
mBin.TrendVar	-0.02	0.00	-29.25	0.00%
mBin.Jan	0.58	0.00	171.29	0.00%
mBin.Feb	0.58	0.00	166.41	0.00%
mBin.Mar	0.57	0.00	168.32	0.00%
mBin.Apr	0.56	0.00	178.96	0.00%
mBin.May	0.53	0.00	171.83	0.00%
mBin.Jun	0.532	0.003	170.56	0.00%
mBin.Jul	0.538	0.003	171.69	0.00%
mBin.Aug	0.54	0.003	171.67	0.00%
mBin.Sep	0.537	0.003	169.72	0.00%
mBin.Oct	0.539	0.003	169.65	0.00%
mBin.Nov	0.559	0.003	175.2	0.00%
mBin.Dec	0.571	0.003	177.98	0.00%
mBin.Feb14	-0.027	0.008	-3.252	0.18%
mBin.Mar14	0.046	0.008	5.487	0.00%
AR(1)	0.23	0.094	2.453	1.68%

Model Statistics	
Adjusted Observations	83
Deg. of Freedom for Error	67
Adjusted R-Squared	0.961
Model Sum of Squares	0.1
Sum of Squared Errors	0.0
Mean Squared Error	0.0
Std. Error of Regression	0.01
Mean Abs. Dev. (MAD)	0.01
Mean Abs. % Err. (MAPE)	1.09%
Durbin-Watson Statistic	1.434

GS 1000NI Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	2491.26	34.71	71.78	0.00%
mBin.TrendVar	-74.39	10.18	-7.31	0.00%
AR(1)	0.82	0.09	9.51	0.00%

Model Statistics	
Adjusted Observations	54
Deg. of Freedom for Error	51
Adjusted R-Squared	0.97
Model Sum of Squares	414,816.10
Sum of Squared Errors	12,541.16
Mean Squared Error	245.91
Std. Error of Regression	15.68
Mean Abs. Dev. (MAD)	9.26
Mean Abs. % Err. (MAPE)	0.41%
Durbin-Watson Statistic	1.823

GS 1000I Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	-3172.986	279.85	-11.34	0.00%
mFcstRev.ResCust	0.01	0.00	14.40	0.00%
AR(1)	0.92	0.04	24.61	0.00%
MA(1)	0.11	0.12	0.94	34.81%

Model Statistics	
Adjusted Observations	83
Deg. of Freedom for Error	79
Adjusted R-Squared	0.998
Model Sum of Squares	910,448.76
Sum of Squared Errors	1,676.22
Mean Squared Error	21.22
Std. Error of Regression	4.61
Mean Abs. Dev. (MAD)	3.22
Mean Abs. % Err. (MAPE)	0.42%
Durbin-Watson Statistic	1.894

GS 1500 Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	8885.19	3266.36	2.72	0.81%
mStructRev.XOtherGS1500	1660.96	249.75	6.65	0.00%
mStructRev.XHeatGS1500	29249.46	6591.04	4.44	0.00%
mStructRev.XCoolGS1500	8492.33	893.14	9.51	0.00%
mBin.Mar14	-4111.28	943.79	-4.36	0.00%
mBin.May15	5271.47	925.22	5.70	0.00%
mBin.Oct17	7472.773	938.51	7.962	0.00%
mBin.Jul16	2994.113	916.03	3.269	0.16%
AR(1)	0.86	0.057	14.973	0.00%

Model Statistics	
Adjusted Observations	83
Deg. of Freedom for Error	74
Adjusted R-Squared	0.881
Model Sum of Squares	900,271,730
Sum of Squared Errors	108,433,567
Mean Squared Error	1,465,318
Std. Error of Regression	1210.5
Mean Abs. Dev. (MAD)	895.09
Mean Abs. % Err. (MAPE)	2.84%
Durbin-Watson Statistic	2.168

GS 1500 Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Simple	1.025	0.112	9.184	0.00%

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	83
Adjusted R-Squared	0.931
Model Sum of Squares	1,651.00
Sum of Squared Errors	123.00
Mean Squared Error	1.48
Std. Error of Regression	1.22
Mean Abs. Dev. (MAD)	0.57
Mean Abs. % Err. (MAPE)	0.86%
Durbin-Watson Statistic	1.967

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GS 5000 Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	26059.541	9867.5	2.641	1.01%
mStructRev.XHeatGS5000	45535.968	9552.44	4.77	0.00%
mStructRev.XCoolGS5000	19727.169	1962.05	10.05	0.00%
mStructRev.XOtherGS5000	3461.75	801.32	4.32	0.01%
mBin.Feb14	10058.94	2655.34	3.79	0.03%
mBin.Mar14	-8603.04	2503.84	-3.44	0.10%
mBin.Jul16	-7481.19	2620.44	-2.86	0.56%
mBin.Aug17	12618.43	2550.65	4.95	0.00%
mBin.Oct17	-6873.21	2576.92	-2.67	0.94%
mBin.Jul16Plus	-10852.56	777.70	-13.96	0.00%
mBin.Yr18Plus	-3991.207	852.88	-4.68	0.00%

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	73
Adjusted R-Squared	0.879
Model Sum of Squares	3,661,854,724
Sum of Squared Errors	436,230,761
Mean Squared Error	5,975,764
Std. Error of Regression	2,444.54
Mean Abs. Dev. (MAD)	1,785.11
Mean Abs. % Err. (MAPE)	2.66%
Durbin-Watson Statistic	1.834

GS 5000 Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Simple	0.997	0.11	9.083	0

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	83
Adjusted R-Squared	0.847
Model Sum of Squares	3,959.00
Sum of Squared Errors	716.00
Mean Squared Error	8.63
Std. Error of Regression	2.94
Mean Abs. Dev. (MAD)	1.41
Mean Abs. % Err. (MAPE)	1.98%
Durbin-Watson Statistic	2

Large Users Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
mBin.Days	1655.96	13.67	121.14	0.00%
mWthr.wgtCDD18GSLrg	50.07	5.87	8.53	0.00%
mBin.Sep13	-7191.25	2048.95	-3.51	0.08%
mBin.Dec13	-6907.52	2053.83	-3.36	0.12%
mBin.Jun15	11164.32	2091.72	5.34	0.00%
mBin.Apr15Plus	-6446.02	706.66	-9.12	0.00%
mBin.May16Plus	5261.803	656.01	8.021	0.00%

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	77
Adjusted R-Squared	0.729
Model Sum of Squares	927,196,200
Sum of Squared Errors	310,976,768
Mean Squared Error	4,038,659
Std. Error of Regression	2009.64
Mean Abs. Dev. (MAD)	1332.49
Mean Abs. % Err. (MAPE)	2.70%
Durbin-Watson Statistic	1.984

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Large Users Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Simple	1	0.11	9.11	0

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	83
Adjusted R-Squared	0.84
Model Sum of Squares	63.00
Sum of Squared Errors	12.00
Mean Squared Error	0.00
Std. Error of Regression	0
Mean Abs. Dev. (MAD)	0
Mean Abs. % Err. (MAPE)	0.80%
Durbin-Watson Statistic	2

Street Lighting Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
mBin.Jan	4468.41	174.03	25.68	0.00%
mBin.Feb	3924.47	166.49	23.57	0.00%
mBin.Mar	3666.68	161.70	22.68	0.00%
mBin.Apr	3257.07	158.49	20.55	0.00%
mBin.May	2781.26	156.28	17.80	0.00%
mBin.Jun	2662.88	154.74	17.21	0.00%
mBin.Jul	2789.984	153.677	18.155	0.00%
mBin.Aug	3046.127	152.936	19.918	0.00%
mBin.Sep	3389.354	152.422	22.237	0.00%
mBin.Oct	3889.112	152.064	25.576	0.00%
mBin.Nov	4103.446	151.814	27.029	0.00%
mBin.Dec	4347.237	151.64	28.668	0.00%
mBin.Yr18	-760.712	189.338	-4.018	0.02%
mBin.Yr19Plus	-1242.28	221.828	-5.6	0.00%
AR(1)	0.665	0.107	6.195	0.00%

Model Statistics	
Adjusted Observations	71
Deg. of Freedom for Error	56
Adjusted R-Squared	0.915
Model Sum of Squares	49,906,946
Sum of Squared Errors	3,637,633
Mean Squared Error	64,958
Std. Error of Regression	254.87
Mean Abs. Dev. (MAD)	162.09
Mean Abs. % Err. (MAPE)	5.30%
Durbin-Watson Statistic	2.306

Street Lighting Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Simple	1.111	0.121	9.166	0
Trend	0.021	0.033	0.635	0.527

Model Statistics	
Adjusted Observations	72
Deg. of Freedom for Error	70
Adjusted R-Squared	0.986
Model Sum of Squares	207,768,439.00
Sum of Squared Errors	2,838,162.00
Mean Squared Error	40,545.17
Std. Error of Regression	201.36
Mean Abs. Dev. (MAD)	116.28
Mean Abs. % Err. (MAPE)	0.20%
Durbin-Watson Statistic	1.954

MU Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Simple	0.14	0.042	3.318	0.10%
Trend	-0.046	0.01	-7.79	0.00%
Seasonal	0.839	0.111	7.575	0.00%

Model Statistics	
Adjusted Observations	120
Deg. of Freedom for Error	117
Adjusted R-Squared	0.828
Model Sum of Squares	1,143,603
Sum of Squared Errors	233,124
Mean Squared Error	1,993
Std. Error of Regression	45
Mean Abs. Dev. (MAD)	33
Mean Abs. % Err. (MAPE)	2.37%
Durbin-Watson Statistic	2.375

MU Customer Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Simple	1.037	0.11	9.452	0

Model Statistics	
Adjusted Observations	84
Deg. of Freedom for Error	83
Adjusted R-Squared	0.752
Model Sum of Squares	81,628.00
Sum of Squared Errors	26,963.00
Mean Squared Error	324.86
Std. Error of Regression	18.02
Mean Abs. Dev. (MAD)	5.95
Mean Abs. % Err. (MAPE)	0.18%
Durbin-Watson Statistic	2.007

DCL Sales Model

Variable	Coefficient	StdErr	T-Stat	P-Value
Simple	1	0.119	8.426	0.00%

Model Statistics	
Adjusted Observations	72
Deg. of Freedom for Error	71
Adjusted R-Squared	0.945
Model Sum of Squares	16,210
Sum of Squared Errors	949
Mean Squared Error	13
Std. Error of Regression	4
Mean Abs. Dev. (MAD)	1
Mean Abs. % Err. (MAPE)	0.29%
Durbin-Watson Statistic	2



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UPDATED ACCURACY OF LOAD FORECAST AND VARIANCE ANALYSES

2

1

3 1. INTRODUCTION

- 4 Hydro Ottawa's last rebasing application was filed in April 2015 for a Custom Incentive
- 5 Rate-Setting ("Custom IR") framework for the 2016-2020 period. As per the OEB Decision and
- Order and Approved Settlement Agreement governing the utility's 2016-2020 rate plan, Hydro
- 7 Ottawa has used the detailed five-year load forecast that was included in the original 2016-2020
- 8 rebasing application for each of the annual rate adjustment applications which was submitted to
- 9 the OEB over the course of the corresponding rate term.²

10

- 11 As outlined in **UPDATED** Exhibit 3-1-1: Load Forecast, Hydro Ottawa has prepared a new
- 12 five-year detailed load forecast for the 2021-2025 period, as part of this Application. Hydro
- Ottawa retained the services of a third-party expert (Itron) for the purpose of preparing this load
- 14 forecast. The utility confirms that it did not develop a detailed load forecast in between the filings
- 15 of its 2016-2020 and 2021-2025 Custom IR applications.

16

17 2. HISTORICAL ACCURACY OF LOAD FORECAST

- Hydro Ottawa has provided UPDATED Attachment 3-1-1(A): Appendix 2-IB Load Forecast
- Analysis, which summarizes the data and develops year-over-year trends in historical and
- forecast customer counts, consumption, demand, and revenues. The utility completed Appendix
- 21 2-IB, as originally submitted, with the following inputs:

22 23

24

- 2016-2018 actual sales, demand, customer count and connections, and distribution revenue;
- 25 2016-2018 actual weather-normalized sales and demand;
- 2019-2020 updated load forecast and approved distribution revenue; and 26
- 27 2021-2025 proposed load forecast and proposed distribution revenue.

²⁸ ¹ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April

 ^{29, 2015).} Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).



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1 Hydro Ottawa completed the UPDATED Appendix 2-IB with the following inputs:

2

4

5

- 2016-2019 actual sales, demand, customer count and connections, and distribution revenue;
- 2016-2019 actual weather-normalized sales and demand;
- 2020 updated load forecast and approved distribution revenue; and
 - 2021-2025 proposed load forecast and proposed distribution revenue.

8

7

- 9 For details regarding the class level assumptions and data sources in the load forecast, please
- 10 see **UPDATED** Attachment 3-1-1(A): Appendix 2-IB Load Forecast Analysis, which provides
- 11 year-over-year trending of key components of the load forecast, as follows:
- Customers / connections
- Historical, actual, and weather-normalized load (kWh)
- Consumption per customer / connection
- Demand (kW)
- 16 Revenue

18 19

20

17 The following observations can be derived through the analyses included in Appendix 2-IB:

- Consumption (kWh) will rise through the 2021-2025 forecast period, while remaining lower than the peak year of 2016;
- Demand (kW) shows a gradual downward trend on average throughout the forecast period; and
- Customer count and connections are set to continue following expected trends, in line with anticipated growth in the City of Ottawa's population.

- 26 Tables 1 through 12 in this Schedule summarize Hydro Ottawa's 2016-2020 OEB-approved load
- 27 forecast and compare its data to both 2016-2018 Historical and 2019-2020 Bridge Year data. As



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- 1 part of the update for 2019 actuals, Hydro Ottawa has provided 2019 Historical data, where
- 2 applicable, for Tables 1 through 12.

3

5

- 4 Table 1 below provides Hydro Ottawa's energy sales forecast by MWh for 2016-2020.
- Table 1 2016-2020 Energy Sales Forecast By Customer Class (MWh)

	2016	2017	2018	2019	2020
Residential	2,216,045	2,198,259	2,206,411	2,214,984	2,217,628
General Service < 50 kW	726,360	716,896	709,791	704,193	699,744
General Service 50 to 1,499 kW Non Interval	2,954,441	2,907,445	2,875,422	2,852,593	2,835,387
General Service 1,500 to 4,999 kW	863,309	877,400	895,369	914,569	935,554
Large Use	620,218	619,253	618,467	617,036	615,195
Street Lighting	43,552	43,653	43,765	43,876	44,015
Unmetered Scattered Load	16,651	16,690	16,731	16,772	16,827
Sentinel Lighting	48	48	48	48	48
TOTAL MWh SALES	7,440,624	7,379,644	7,366,004	7,364,071	7,364,398

- 8 The updated version of Table 2 below provides Hydro Ottawa's actual energy sales by MWh for
- 9 2016-2020 and facilitates comparisons with the information presented in Table 1 above.



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Table 2 – AS ORIGINALLY SUBMITTED – 2016-2020 Weather-Normalized Actual Sales

Forecast by Customer Class (MWh)

	2016	2017	2018	2019	2020
Residential	2,203,868	2,232,964	2,227,860	2,263,788	2,254,563
General Service < 50 kW	724,984	719,547	712,044	724,602	707,799
General Service 50 to 1,499 kW Non Interval	2,890,997	2,899,049	2,882,228	2,884,379	2,839,873
General Service 1,500 to 4,999 kW	797,371	759,003	712,925	723,102	701,795
Large Use	584,167	609,177	603,448	602,082	588,828
Street Lighting	45,206	38,204	31,723	26,728	24,064
Unmetered Scattered Load	15,659	15,231	14,861	14,550	14,106
Sentinel Lighting	47	47	47	47	47
TOTAL MWh SALES	7,262,299	7,273,222	7,185,136	7,239,278	7,131,075

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Table 2 – UPDATED FOR 2019 ACTUALS – 2016-2020 Weather-Normalized Actual Sales

5 Forecast by Customer Class (MWh)

	2016	2017	2018	2019	2020
Residential	2,203,863	2,232,966	2,227,858	2,256,9818	2,254,424
General Service < 50 kW	724,984	719,547	712,045	720,536	707,564
General Service 50 to 1,499 kW Non Interval	2,890,997	2,899,051	2,882,252	2,870,031	2,838,242
General Service 1,500 to 4,999 kW	797,371	759,004	712,925	724,066	701,743
Large Use	584,167	609,177	603,448	603,590	588,828
Street Lighting	45,206	38,204	31,723	26,728	24,064
Unmetered Scattered Load	15,659	15,231	14,861	14,550	14,106
Sentinel Lighting	47	47	47	47	47
TOTAL MWh SALES	7,262,272	7,273,227	7,185,159	7,216,529	7,129,018



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- 1 Table 3 provides the variance value between the forecast and the actuals shown above in
- 2 Tables 1 and 2 (as updated for 2019 actuals, where applicable).

4 Table 3 – AS ORIGINALLY SUBMITTED – Variance in 2016-2020 Forecast vs.

5 Weather-Normalized Actual Sales (MWh)

	2016	2017	2018	2019	2020
Residential	-12,181	34,705	21,449	48,804	36,935
General Service < 50 kW	-1,376	2,651	2,253	20,409	8,055
General Service 50 to 1,499 kW Non Interval	-63,444	-8,396	6,806	31,786	4,486
General Service 1,500 to 4,999 kW	-65,938	-118,397	-182,444	-191,467	-233,759
Large Use	-36,051	-10,076	-15,019	-14,954	-26,367
Street Lighting	1,654	-5,449	-12,042	-17,148	-19,951
Unmetered Scattered Load	-992	-1,459	-1,870	-2,222	-2,721
Sentinel Lighting	-1	-1	-1	-1	-1
TOTAL MWh SALES	-178,325	-106,422	-180,868	-124,793	-233,323

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7 Table 3 – UPDATED FOR 2019 ACTUALS – Variance in 2016-2020 Forecast vs.

Weather-Normalized Actual Sales (MWh)

	2016	2017	2018	2019	2020
Residential	-12,182	34,707	21,447	41,997	36,796
General Service < 50 kW	-1,376	2,651	2,254	16,343	7,820
General Service 50 to 1,499 kW Non Interval	-63,465	-8,394	6,830	17,438	2,855
General Service 1,500 to 4,999 kW	-65,939	-118,396	-182,444	-190,503	-233,811
Large Use	-36,051	-10,076	-15,019	-13,446	-26,367
Street Lighting	1,654	-5,449	-12,042	-17,148	-19,951
Unmetered Scattered Load	-992	-1,459	-1,870	-2,222	-2,721
Sentinel Lighting	-1	-1	-1	-1	-1
TOTAL MWh SALES	-178,353	-106,417	-180,845	-147,542	-235,380



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- The updated version of Table 4 provides the percentage change between the forecast and the
- 2 actuals that is illustrated in Table 3, as updated, above.

4 Table 4 – AS ORIGINALLY SUBMITTED – 2016-2020 Forecast vs. Weather-Normalized

5 Actual Sales - % Change (MWh)

	2016	2017	2018	2019	2020
Residential	-0.55%	1.58%	0.97%	2.20%	1.67%
General Service < 50 kW	-0.19%	0.37%	0.32%	2.90%	1.15%
General Service 50 to 1,499 kW Non Interval	-2.15%	-0.29%	0.24%	1.11%	0.16%
General Service 1,500 to 4,999 kW	-7.64%	-13.49%	-20.38%	-20.94%	-24.99%
Large Use	-5.81%	-1.63%	-2.43%	-2.42%	-4.29%
Street Lighting	3.80%	-12.48%	-27.52%	-39.08%	-45.33%
Unmetered Scattered Load	-5.96%	-8.74%	-11.18%	-13.25%	-16.17%
Sentinel Lighting	-2.08%	-2.08%	-2.08%	-2.08%	-2.08%
TOTAL MWh SALES	-2.40%	-1.44%	-2.46%	-1.69%	-3.17%

7 Table 4 – UPDATED FOR 2019 ACTUALS – 2016-2020 Forecast vs. Weather-Normalized

8 Actual Sales - % Change (MWh)

	2016	2017	2018	2019	2020
Residential	-0.55%	1.58%	0.97%	1.90%	1.66%
General Service < 50 kW	-0.19%	0.37%	0.32%	2.32%	1.12%
General Service 50 to 1,499 kW Non Interval	-2.15%	-0.29%	0.24%	0.62%	0.10%
General Service 1,500 to 4,999 kW	-7.64%	-13.49%	-20.38%	-20.83%	-24.99%
Large Use	-5.81%	-1.63%	-2.43%	-2.18%	-4.29%
Street Lighting	3.80%	-12.48%	-27.52%	-39.08%	-45.33%
Unmetered Scattered Load	-5.96%	-8.74%	-11.18%	-13.25%	-16.17%
Sentinel Lighting	-2.08%	-2.08%	-2.08%	-2.08%	-2.08%
TOTAL MWh SALES	-2.40%	-1.44%	-2.46%	-2.00%	-3.20%

10 Table 5 below provides Hydro Ottawa's demand sales forecast by kW for 2016-2020.

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Table 5 – 2016-2020 Demand Sales Forecast by Customer Class (kW)

	2016	2017	2018	2019	2020
General Service 50 to 1,499 kW Non Interval	7,027,979	6,908,640	6,824,350	6,761,930	6,711,579
General Service 1,500 to 4,999 kW	1,847,365	1,877,691	1,916,044	1,957,009	2,001,525
Large Use	1,121,449	1,119,726	1,118,300	1,115,702	1,112,342
Street Lighting	123,144	123,144	123,144	123,144	123,144
Sentinel Lighting	216	216	216	216	216
TOTAL KW DEMAND SALES	10,120,153	10,029,417	9,982,054	9,958,001	9,948,806

³ The updated version of Table 6 below provides Hydro Ottawa's actual demand sales by kW for

^{4 2016-2020.}



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Table 6 – AS ORIGINALLY SUBMITTED – 2016-2020 Weather-Normalized Actual Demand

Sales by Customer Class (kW)

	2016	2017	2018	2019	2020
General Service 50 to 1,499 kW Non Interval	7,006,074	7,015,544	6,960,266	6,930,957	6,867,852
General Service 1,500 to 4,999 kW	1,729,271	1,648,910	1,547,429	1,572,857	1,552,781
Large Use	1,070,337	1,114,963	1,104,851	1,105,225	1,075,011
Street Lighting	125,465	106,296	88,707	74,394	67,032
Sentinel Lighting	132	132	132	132	132
TOTAL KW DEMAND SALES	9,931,279	9,885,845	9,701,385	9,683,565	9,562,808

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Table 6 – UPDATED FOR 2019 ACTUALS – 2016-2020 Weather-Normalized Actual

5 Demand Sales by Customer Class (kW)

	2016	2017	2018	2019	2020
General Service 50 to 1,499 kW Non Interval	7,020,354	7,028,949	6,973,449	6,937,927	6,866,524
General Service 1,500 to 4,999 kW	1,731,827	1,650,012	1,548,930	1,573,758	1,551,714
Large Use	1,061,398	1,105,747	1,095,710	1,096,064	1,075,011
Street Lighting	125,465	106,296	88,707	74,394	67,032
Sentinel Lighting	132	132	132	132	132
TOTAL KW DEMAND SALES	9,939,1769	9,891,136	9,706,928	9,682,275	9,560,413

- 7 The updated version of Table 7 below provides the variance value between the forecast and the
- 8 actuals, in relation to 2016-2020 demand sales.



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Table 7 – AS ORIGINALLY SUBMITTED – Variance in 2016-2020 Forecast vs.

Weather-Normalized Actual Sales (kW)

	2016	2017	2018	2019	2020
General Service 50 to 1,499 kW Non Interval	(21,905)	106,904	135,916	169,027	156,273
General Service 1,500 to 4,999 kW	(118,094)	(228,781)	(368,615)	(384,152)	(448,744)
Large Use	(51,112)	(4,763)	(13,449)	(10,477)	(37,331)
Street Lighting	2,321	(16,848)	(34,437)	(48,750)	(56,112)
Sentinel Lighting	(84)	(84)	(84)	(84)	(84)
TOTAL KW DEMAND SALES	(188,874)	(143,572)	(280,669)	(274,436)	(385,998)

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4 Table 7 – UPDATED FOR 2019 ACTUALS – Variance in 2016-2020 Forecast vs.

5 Weather-Normalized Actual Sales (kW)

	2016	2017	2018	2019	2020
General Service 50 to 1,499 kW Non Interval	(7,625)	120,309	149,099	175,997	154,945
General Service 1,500 to 4,999 kW	(115,538)	(227,679)	(367,114)	(383,251)	(449,811)
Large Use	(60,051)	(13,979)	(22,590)	(19,638)	(37,331)
Street Lighting	2,321	(16,848)	(34,437)	(48,750)	(56,112)
Sentinel Lighting	(84)	(84)	(84)	(84)	(84)
TOTAL KW DEMAND SALES	(180,977)	(138,281)	(275,126)	(275,726)	(388,393)

- 7 The updated version of Table 8 below provides the percentage change between the forecast
- 8 and the actuals that is illustrated in Table 7, as updated above.



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Table 8 - AS ORIGINALLY SUBMITTED - 2016-2020 Forecast vs. Weather-Normalized

2 Actual Sales - % Change (kW)

	2016	2017	2018	2019	2020
General Service 50 to 1,499 kW Non Interval	-0.31%	1.55%	1.99%	2.50%	2.33%
General Service 1,500 to 4,999 kW	-6.39%	-12.18%	-19.24%	-19.63%	-22.42%
Large Use	-4.56%	-0.43%	-1.20%	-0.94%	-3.36%
Street Lighting	1.88%	-13.68%	-27.96%	-39.59%	-45.57%
Sentinel Lighting	-38.89%	-38.89%	-38.89% -38.89%		-38.89%
TOTAL KW DEMAND SALES	-1.87%	-1.43%	-2.81%	-2.76%	-3.88%

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Table 8 - UPDATED FOR 2019 ACTUALS - 2016-2020 Forecast vs. Weather-Normalized

5 Actual Sales - % Change (kW)

	2016	2017	2018	2019	2020
General Service 50 to 1,499 kW Non Interval	-0.11%	1.74%	2.18%	2.60%	2.31%
General Service 1,500 to 4,999 kW	-6.25%	-12.13%	-19.16%	-19.58%	-22.47%
Large Use	-5.35%	-1.25%	-2.02%	-1.76%	-3.36%
Street Lighting	1.88%	-13.68%	-27.96%	-39.59%	-45.57%
Sentinel Lighting	-38.89%	-38.89%	-38.89% -38.89%		-38.89%
TOTAL KW DEMAND SALES	-1.79%	-1.38	-2.76%	-2.77%	-3.90%

⁷ Table 9 below provides the forecast for Hydro Ottawa's average number of customers for the

^{8 2016-2020} period.



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Table 9 – 2016-2020 Forecast Average Number of Customers and Connections by Class

	2016	2017	2018	2019	2020
Residential	297,343	301,258	305,144	308,990	312,786
General Service < 50 kW	24,512	24,626	24,739	24,850	24,959
General Service 50 to 1,499 kW Non Interval	3,296	3,323	3,351	3,380	3,408
General Service 1,500 to 4,999 kW	76	76	76	76	76
Large Use	11	11	11	11	11
TOTAL CUSTOMERS	325,238	329,294	333,321	337,307	341,240

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	2016	2017	2018	2019	2020
Street Lighting	55,516	55,516	55,516	55,516	55,516
Sentinel Lighting	55	51	47	43	39
Unmetered Scattered Load	3,477	3,525	3,573	3,621	3,669
TOTAL CONNECTIONS	59,048	59,092	59,136	59,180	59,224

⁴ Table 10 provides actuals for the utility's total customer and connections count for 2016-2020.



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Table 10 – 2016-2020 Actual Number of Customers and Connections by Class³

	2016	2017	2018	2019	2020
Residential	298,001	301,839	305,390	309,165	313,134
General Service < 50 kW	24,623	24,786	24,926	25,030	25,200
General Service 50 to 1,499 kW Non Interval	3,208	3,216	3,223	3,181	3,146
General Service 1,500 to 4,999 kW	72	74	68	67	68
Large Use	11	12	13	11	11
TOTAL CUSTOMERS	325,915	329,927	333,620	337,454	341,559

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	2016	2017	2018	2019	2020
Street Lighting	58,588	58,470	59,286	60,538	61,886
Sentinel Lighting	62	58	57	55	55
Unmetered Scattered Load	3,416	3,433	3,440	3,382	3,321
TOTAL CONNECTIONS	62,066	61,961	62,783	63,975	65,262

⁴ Table 11 provides the variance value between the forecast and the actuals, in relation to

^{5 2016-2020} customer and connections count.

⁶ ³ 2019 and 2020 are Bridge Year Updated Load forecast numbers.



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Table 11 - Variance in 2016-2020 Forecast vs. Actual Customer and Connections Count

	2016	2017	2018	2019	2020
Residential	658	581	246	175	348
General Service < 50 kW	111	160	187	180	241
General Service 50 to 1,499 kW Non Interval	(88)	(107)	(128)	(199)	(262)
General Service 1,500 to 4,999 kW	(4)	(2)	(8)	(9)	(8)
Large Use	-	1	2	-	-
TOTAL CUSTOMERS	677	633	299	147	319

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	2016	2017	2018	2019	2020
Street Lighting	3,072	2,954	3,770	5,022	6,370
Sentinel Lighting	7	7	10	12	16
Unmetered Scattered Load	(61)	(92)	(133)	(239)	(348)
TOTAL CONNECTIONS	3,018	2,869	3,647	4,795	6,038

⁴ Table 12 below provides the percentage change between the forecast and the actuals that is

⁵ illustrated in Table 11 above.



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Table 12 – 2016-2020 Forecast vs. Actual Customer and Connections Count - % Change

	2016	2017	2018	2019	2020
Residential	0.22%	0.19%	0.08%	0.06%	0.11%
General Service < 50 kW	0.45%	0.65%	0.76%	0.72%	0.97%
General Service 50 to 1,499 kW Non Interval	-2.67%	-3.22%	-3.82%	-5.89%	-7.69%
General Service 1,500 to 4,999 kW	-5.26%	-2.63%	-10.53%	-11.84%	-10.53%
Large Use	0.00%	9.09%	18.18%	0.00%	0.00%
TOTAL CUSTOMERS	0.21%	0.19%	0.09%	0.04%	0.09%

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	2016	2017	2018	2019	2020
Street Lighting	5.53%	5.32%	6.79%	9.05%	11.47%
Sentinel Lighting	12.73%	13.73%	21.28%	27.91%	41.03%
Unmetered Scattered Load	-1.75%	-2.61%	-3.72%	-6.60%	-9.48%
TOTAL CONNECTIONS	5.11%	4.86%	6.17%	8.10%	10.20%

⁴ Hydro Ottawa has confidence that the variances identified in the foregoing analyses are within

⁵ an acceptable range of tolerance.

	2016	2017	2018	2019	2020
Residential	2,216,045	2,198,259	2,206,411	2,214,984	2,217,628
GS < 50 kW	726,360	716,896	709,791	704,193	699,744
GS > 50 to 1,499 kW	2,954,441	2,907,445	2,875,422	2,852,593	2,835,387
GS > 1,500 to 4,999 kW	863,309	877,400	895,369	914,569	935,554
Large Use	620,218	619,253	618,467	617,036	615,195
Street Lighting	43,552	43,653	43,765	43,876	44,015
Unmetered Scattered Load	16,651	16,690	16,731	16,772	16,827
Sentinel Lights	48	48	48	48	48
Total mWH Sales	7,440,624	7,379,644	7,366,004	7,364,071	7,364,398

Table 2 – Hydro Ottawa 2016 through 2020 Actual Sales (MWh) by class

	2016	2017	2018	2019	2020
Residential	2,203,863	2,232,966	2,227,858	2,256,981	2,254,424
GS < 50 kW	724,984	719,547	712,045	720,536	707,564
GS > 50 to 1,499 kW	2,890,976	2,899,051	2,882,252	2,870,031	2,838,242
GS > 1,500 to 4,999 kW	797,370	759,004	712,925	724,066	701,743
Large Use	584,167	609,177	603,448	603,590	588,828
Street Lighting	45,206	38,204	31,723	26,728	24,064
Unmetered Scattered Load	15,659	15,231	14,861	14,550	14,106
Sentinel Lights	47	47	47	47	47
Total mWH Sales	7,262,272	7,273,227	7,185,159	7,216,529	7,129,018

Table 3 – Hydro Ottawa 2016 through 2020 Forecast vs Actual # Difference (MWh) by class

	2016	2017	2018	2019	2020
Residential	-12,182	34,707	21,447	41,997	36,796
GS < 50 kW	-1,376	2,651	2,254	16,343	7,820
GS > 50 to 1,499 kW	-63,465	-8,394	6,830	17,438	2,855
GS > 1,500 to 4,999 kW	-65,939	-118,396	-182,444	-190,503	-233,811
Large Use	-36,051	-10,076	-15,019	-13,446	-26,367
Street Lighting	1,654	-5,449	-12,042	-17,148	-19,951
Unmetered Scattered Load	-992	-1,459	-1,870	-2,222	-2,721
Sentinel Lights	-1	-1	-1	-1	-1
Total mWH Sales	-178,352	-106,417	-180,845	-147,542	-235,380

Table 4 – Hydro Ottawa 2016 through 2020 Forecast vs Actual # Difference (MWh) by class

	2016	2017	2018	2019	2020
Residential	-0.55%	1.58%	0.97%	1.90%	1.66%
GS < 50 kW	-0.19%	0.37%	0.32%	2.32%	1.12%
GS > 50 to 1,499 kW	-2.15%	-0.29%	0.24%	0.61%	0.10%
GS > 1,500 to 4,999 kW	-7.64%	-13.49%	-20.38%	-20.83%	-24.99%
Large Use	-5.81%	-1.63%	-2.43%	-2.18%	-4.29%
Street Lighting	3.80%	-12.48%	-27.52%	-39.08%	-45.33%
Unmetered Scattered Load	-5.96%	-8.74%	-11.18%	-13.25%	-16.17%
Sentinel Lights	-2.08%	-2.08%	-2.08%	-2.08%	-2.08%
Total mWH Sales	-2.40%	-1.44%	-2.46%	-2.00%	-3.20%

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	Table 5– Hydro Otta	awa 2016 through 2020 Dema	nd Forecast (kW) by class		
	2016	2017	2018	2019	2020
GS > 50 to 1,499 kW	7,027,979	6,908,640	6,824,350	6,761,930	6,711,579
GS > 1,500 to 4,999 kW	1,847,365	1,877,691	1,916,044	1,957,009	2,001,525
Large User	1,121,449	1,119,726	1,118,300	1,115,702	1,112,342
Street Lighting	123,144	123,144	123,144	123,144	123,144
Sentinel Lights	216	216	216	216	216
Total	10,120,153	10,029,417	9,982,054	9,958,001	9,948,806
	Table 6 – Hydro Ot	ttawa 2016 through 2020 Dem	and Actual (kW) by class		
	2016	2017	2018	2019	2020
GS > 50 to 1,499 kW	7,020,354	7,028,949	6,973,449	6,937,927	6,866,524
GS > 1,500 to 4,999 kW	1,731,827	1,650,012	1,548,930	1,573,758	1,551,714
Large User	1,061,398	1,105,747	1,095,710	1,096,064	1,075,011
Street Lighting	125,465	106,296	88,707	74,394	67,032
Sentinel Lights	132	132	132	132	132
Total	9,939,176	9,891,136	9,706,928	9,682,275	9,560,413
	Table 7 – Hvdro Otta	awa 2016 through 2020 Foreca	est vs Actuall (kW) by class		
	2016	2017	2018	2019	2020
GS > 50 to 1,499 kW	(7,625)	120,309	149,099	175,997	154,945
GS > 1,500 to 4,999 kW	(115,538)	(227,679)	(367,114)	(383,251)	(449,811)
Large User	(60,051)	(13,979)	(22,590)	(19,638)	(37,331)
Street Lighting	2,321	(16,848)	(34,437)	(48,750)	(56,112)
Sentinel Lights	(84)	(84)	(84)	(84)	(84)
Total	(180,977)	(138,281)	(275,126)	(275,726)	(388,393)
	Table 8 – Hvdro Otta	awa 2016 through 2020 Foreca	ast vs Actuall (kW) by class		
	2016	2017	2018	2019	2020
GS > 50 to 1,499 kW	-0.11%	1.74%	2.18%	2.60%	2.31%
GS > 1,500 to 4,999 kW	-6.25%	-12.13%	-19.16%	-19.58%	-22.47%
Large User	-5.35%	-1.25%	-2.02%	-1.76%	-3.36%
Street Lighting	1.88%	-13.68%	-27.96%	-39.59%	-45.57%
Sentinel Lights	-38.89%	-38.89%	-38.89%	-38.89%	-38.89%
Total	-1.79%	-1.38%	-2.76%	-2.77%	-3.90%

Table 9 – Hydro Ottawa 2016 through 2020 Forecasted Average Number of Customers and Connections by class
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	2016	2017	2018	2019	2020
Residential	297,343	301,258	305,144	308,990	312,786
GS < 50 kW	24,512	24,626	24,739	24,850	24,959
GS > 50 to 1,499 kW	3,296	3,323	3,351	3,380	3,408
GS > 1,500 to 4,999 kW	76	76	76	76	76
Large Users	11	11	11	11	11
Total Customers	325,238	329,294	333,321	337,307	341,240
Street Lighting	55,516	55,516	55,516	55,516	55,516
Sentinel Lights	55	51	47	43	39
Unmetered Scattered Loads	3,477	3,525	3,573	3,621	3,669
Total Connections	59,048	59,092	59,136	59,180	59,224

Table 10 – Hydro Ottawa 2016 through 2020 Actual Number of Customers and Connections by class

	2016	2017	2018	2019	2020
Residential	298,001	301,839	305,390	309,165	313,134
GS < 50 kW	24,623	24,786	24,926	25,030	25,200
GS > 50 to 1,499 kW	3,208	3,216	3,223	3,181	3,146
GS > 1,500 to 4,999 kW	72	74	68	67	68
Large Users	11	12	13	11	11
Total Customers	325,915	329,927	333,620	337,454	341,559
Street Lighting	58,588	58,470	59,286	60,538	61,886
Sentinel Lights	62	58	57	55	55
Unmetered Scattered Loads	3,416	3,433	3,440	3,382	3,321
Total Connections	62,066	61,961	62,783	63,975	65,262

Table 11 – Hydro Ottawa 2016 through 2020 Actual Number of Customers and Connections by class

	2016	2017	2018	2019	2020
Residential	658	581	246	175	348
GS < 50 kW	111	160	187	180	241
GS > 50 to 1,499 kW	(88)	3) (107)	(128)	(199)	(262)
GS > 1,500 to 4,999 kW	(4	1) (2)	(8)	(9)	(8)
Large Users	-	1	2	-	-
Total Customers	677	633	299	147	319
Street Lighting	3,072	2,954	3,770	5,022	6,370
Sentinel Lights	7	7 7	10	12	16
Unmetered Scattered Loads	(61	(92)	(133)	(239)	(348)
Total Connections	3,018	2,869	3,647	4,795	6,038

Table 12 – Hydro Ottawa 2016 through 2020 Actual Number of Customers and Connections by class

	2016	2017	2018	2019	2020
Residential	0.22%	0.19%	0.08%	0.06%	0.11%
GS < 50 kW	0.45%	0.65%	0.76%	0.72%	0.97%
GS > 50 to 1,499 kW	-2.67%	-3.22%	-3.82%	-5.89%	-7.69%
GS > 1,500 to 4,999 kW	-5.26%	-2.63%	-10.53%	-11.84%	-10.53%
Large Users	0.00%	9.09%	18.18%	0.00%	0.00%
Total Customers	0.21%	0.19%	0.09%	0.04%	0.09%
Street Lighting	5.53%	5.32%	6.79%	9.05%	11.47%
Sentinel Lights	12.73%	13.73%	21.28%	27.91%	41.03%
Unmetered Scattered Loads	-1.75%	-2.61%	-3.72%	-6.60%	-9.48%
Total Connections	5.11%	4.86%	6.17%	8.10%	10.20%



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UPDATED OTHER REVENUE SUMMARY

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3 1. INTRODUCTION

- 4 Other Revenue, also referred to as Revenue Offsets, relates to all utility revenues other than
- 5 distribution and cost of power revenues. Hydro Ottawa has classified these into the following
- 6 categories: Specific Service Charges ("SSCs"), Late Payment Charges, Other Operating
- 7 Revenue, and Other Income and Deductions.

- Table 1 provides a summary of Other Revenue from 2016-2025, along with the associated
- 10 Uniform System of Accounts ("USofA"). Table 1 has been both revised and updated, as detailed
- 11 below. The revisions to 2016-2019 were made to remove some costs from Rate Base to
- non-distribution, resulting in an increase in Other Revenue. The revision to 2020 was made to
- 13 include the offsetting entry to the regulatory asset for the Gains and Losses on Disposal of
- 14 Fixed Assets Variance Account, as described in UPDATED Exhibit 9-1-3: Group 2 Accounts.
- 15 The update in 2020-2022 was made as a result of the updated MiGen project, as described in
- 16 the updates to section 2.3.3 of Attachment 2-4-3(E): Material Investments.

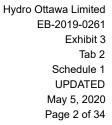




Table 1 – AS ORIGINALLY SUBMITTED – Other Revenue Summary (\$'000s)

	Hist	torical Ye	ars Bridge Years			Test Years			\$	
Other Revenue	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Specific Service Charges (4235)	\$6,160	\$5,490	\$5,691	\$5,535	\$5,555	\$5,118	\$5,394	\$5,679	\$5,910	\$6,213
Late Payment Charges (4225)	\$1,029	\$1,072	\$1,041	\$1,126	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Other Operating Revenue (4082, 4084, 4086, 4090)	\$1,368	\$1,412	\$1,438	\$1,492	\$1,527	\$2,790	\$2,885	\$2,971	\$3,060	\$3,163
Other Income & Deductions (4315, 4325, 4330, 4362, 4375, 4405)	\$3,796	\$5,230	\$4,923	\$1,270	\$2,186	\$2,069	\$1,733	\$2,017	\$2,181	\$2,081
TOTAL OTHER REVENUE ¹	\$12,354	\$13,203	\$13,093	\$9,422	\$10,268	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457

3

Table 1 – AS REVISED – Other Revenue Summary (\$'000s)

	Historical Years			Bridge Years		Test Years				
Other Revenue	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Specific Service Charges (4235)	\$6,160	\$5,490	\$5,691	\$5,535	\$5,555	\$5,118	\$5,394	\$5,679	\$5,910	\$6,213
Late Payment Charges (4225)	\$1,029	\$1,072	\$1,041	\$1,126	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Other Operating Revenue (4082, 4084, 4086, 4090)	\$1,368	\$1,412	\$1,438	\$1,492	\$1,527	\$2,790	\$2,885	\$2,971	\$3,060	\$3,163
Other Income & Deductions (4315, 4325, 4330, 4362, 4375, 4405)	\$3,796	\$5,239	\$5,168	\$1,508	\$2,685	\$2,069	\$1,733	\$2,017	\$2,181	\$2,081
TOTAL OTHER REVENUE ²	\$12,354	\$13,213	\$13,338	\$9,661	\$10,767	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457

 ⁵ ¹ Totals may not sum due to rounding.
 ² Totals may not sum due to rounding. Note that the revision to 2016 Other Income and Deductions is immaterial

⁷ when rounded to thousands.

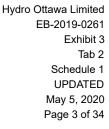




Table 1 – UPDATED FOR 2019 ACTUALS – Other Revenue Summary (\$'000s)

		Historic	al Years		Bridge Year	Test Years				
Other Revenue	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Specific Service Charges (4235)	\$6,160	\$5,490	\$5,691	\$5,522	\$5,555	\$5,118	\$5,394	\$5,679	\$5,910	\$6,213
Late Payment Charges (4225)	\$1,029	\$1,072	\$1,041	\$994	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Other Operating Revenue (4082, 4084, 4086, 4090)	\$1,368	\$1,412	\$1,438	\$1,491	\$1,527	\$2,790	\$2,885	\$2,971	\$3,060	\$3,163
Other Income & Deductions (4315, 4325, 4330, 4362, 4375, 4405)	\$3,796	\$5,239	\$5,168	\$1,828	\$2,691	\$2,105	\$1,691	\$2,017	\$2,181	\$2,081
TOTAL OTHER REVENUE ³	\$12,354	\$13,213	\$13,338	\$9,835	\$10,773	\$11,013	\$10,970	\$11,667	\$12,151	\$12,457

2

- 3 A detailed breakdown of Other Operating Revenue and Other Income and Deductions is
- 4 provided in **UPDATED** Attachment 3-2-1(A): OEB Appendix 2-H Other Operating Revenue.

5

6 2. SPECIFIC SERVICE CHARGES

- 7 SSCs are applied for service requests or activities which primarily benefit or are attributed to the
- 8 customer who requests or initiates the specific service or activity. An example would be setting
- 9 up an account for a new customer. Conversely, some SSCs are applied as a result of a
- 10 customer's inaction, such as non-payment. As part of this Application, Hydro Ottawa undertook
- 11 a review of many routine service charges to ensure that the associated costs of providing such
- 12 services were appropriately recovered.

13

14 2.1. SUMMARY OF PROPOSED SSC CHANGES

- 15 Changes to Hydro Ottawa's SSCs for the 2021-2025 period are discussed in more detail below.
- 16 Additional information regarding SSCs can be found in **UPDATED** Exhibit 8-7-1: Specific
- 17 Service Charges and Attachment 8-7-1(A): Proposed and New Specific Service Charge

^{18 &}lt;sup>3</sup> Totals may not sum due to rounding.



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- 1 Calculations. Hydro Ottawa is proposing to apply its Custom Price Escalation Factor ("CPEF") of
- 2 2.51% to all SSCs for the years 2022-2025.4 For detail and context on Hydro Ottawa's CPEF,
- 3 refer to UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.

4

5 2.1.1. Removal of "Account Certificate" Charge

6 The "Account Certificate" charge applies to the provision of both an Easement Certificate and an

7 Arrears Certificate. The Easement Certificate confirms if Hydro Ottawa has any associated

8 property easements, whereas the Arrears Certificate confirms if the current account has any

9 outstanding payments. While historically, these two requests were routinely received for real

0 estate transactions, over more recent years demand for the combined services has significantly

11 declined. Additionally, the costs associated with the provision of each service have become

12 distinctly different. Specifically, the Easement Certificate is now more labour intensive, relative to

13 the Arrears Certificate. A separation of these related charges is therefore required to more

14 accurately align the respective charge with associated costs.

15

16 Hydro Ottawa is requesting that the "Account Certificate" charge be eliminated and replaced

17 with an "Easement Certificate for Unregistered Easements" charge to cover the costs of

18 confirming unregistered easements and/or issuing compliance letters, per property search. The

proposed charge would be set at \$25 in 2021 and escalated by Hydro Ottawa's CPEF of 2.51%

over the course of 2022-2025.

21

2 Similarly, Hydro Ottawa requests approval for an "Arrears Certificate" charge to cover the costs

3 associated with confirming the payment status of an account, at the existing 2020 rate of \$15

24 and escalated by 2.51% over the 2022-2025 period.

_

²⁵ The only exception to this approach is with respect to Dry Core Transformer Distribution Charges, which are based

²⁶ on proposed 2021-2025 distribution rates of the >50kW commercial classes, as well as the forecasted Regulated

²⁷ Price Plan, transmission, low voltage, and regulatory rates.



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1 2.1.2. Account Set Up/Change of Occupancy Charge

- 2 A productivity initiative to streamline the customer move process reduced certain labour costs
- 3 associated with opening and closing customer accounts. As a result, Hydro Ottawa is applying
- 4 for a new rate of \$25 in 2021, which represents a \$5 reduction from the 2020 rate of \$30. Hydro
- 5 Ottawa also proposes to apply its escalation factor of 2.51% annually between 2022 and 2025.

6

7 2.1.3. Reconnect at Meter after Regular Hours

8 During the previous rate period of 2016-2020, Hydro Ottawa phased-in remote meter

9 reconnection technology in hard-to-access locations and premises that have high

0 move-in/move-out trends. Through the use of Honeywell (formerly Elster) technology, Hydro

11 Ottawa can remotely reconnect meters through its Advanced Metering Infrastructure ("AMI")

12 equipped with the EnergyAxis Management System ("EA MS"). The operational productivity

13 and efficiencies, including the elimination of a field trip to a customer's premise to reconnect

4 electricity service, has reduced associated labour and fleet costs. Customers also benefit from

more timely service restoration. As a result, Hydro Ottawa is applying for a new rate of \$100 in

16 2021, which represents an \$85 reduction from the 2020 rate of \$185. Hydro Ottawa also

7 proposes to apply its escalation factor of 2.51% annually between 2022 and 2025.

18

19 2.1.4. Duplicate Invoices for Previous Billing

- 20 The availability of online bills, presented in bill format, has enabled Hydro Ottawa to issue
- 21 duplicate bills by email, rather than by Canada Post. This efficiency measure has resulted in
- 22 both bill printing and mailing cost savings. Hydro Ottawa is seeking approval for a rate reduction
- 23 from \$15 in 2020 to \$5 in 2021, along with its annual 2.51% escalation factor increase for the
- 24 years 2022-2025. Requests for this service are forecast to remain static.

25

26 2.1.5. Interval Meter - Field Reading

- 27 This service charge initially included the costs associated with a Hydro Ottawa representative
- 28 attending to the site of interval-metered customers to obtain a scheduled meter reading. Such



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1 site visits would occur, within a reasonable timeframe, in situations in which the phone line was

2 inoperable and the customer had not taken steps to have the phone line fixed.

3

- 4 More recently, Hydro Ottawa has partnered with a cellular carrier to provide a cellular modem
- 5 that will eliminate the need for interval meter phone lines. As this initiative is being phased in,
- 6 Hydro Ottawa may nevertheless need to continue visiting some interval-metered premises to
- 7 take a meter reading, when the phone lines are inoperable. Where applicable, additional trips to
- 8 the site to obtain manual readings will continue to be recovered.

9

- 10 The revenue associated with this service is expected to decline significantly as remote cellular
- 11 communications are phased in. Hydro Ottawa is requesting approval to reduce the 2020 rate of
- 12 \$378 to \$314 in 2021. An annual escalation of 2.51% for the years 2022-2025 is also sought.

13

14 2.1.6. Unprocessed Payment Charge

- 15 This service charge recovers internal costs associated with unprocessable payments.
- 16 Historically, Hydro Ottawa has been applying the standard 2006 Electricity Distribution Rate
- 17 ("EDR") handbook rate. However, a recent internal costing review revealed there was a material
- 18 shortfall in actual cost recovery. As a result, Hydro Ottawa is seeking approval for an increase
- 19 from \$15 to \$25 in 2021. The utility is proposing to apply its escalation factor of 2.51% annually
- 20 for the years 2022-2025.

21

22 2.1.7. Reconnect at Pole - During Regular Hours

- 23 This service charge relates to service reconnections that must be conducted at the distribution
- 24 pole by qualified lines persons. Historically, Hydro Ottawa has been applying the standard 2006
- 25 EDR handbook rate. However, a recent internal costing review revealed there was a material
- 26 shortfall in actual cost recovery. As a result, Hydro Ottawa is seeking approval for an increase
- 27 from \$185 in 2020 to \$250 in 2021. The utility also proposes to apply its escalation factor
- 28 increase of 2.51% annually between 2022 and 2025.



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1 2.1.8. Special Billing Service

- 2 This SSC recovers the costs (primarily labour) associated with the provision of additional billing
- 3 services that require sourcing, compiling, and presenting several months or years of billing
- 4 information for customers or their agents. Hydro Ottawa is seeking approval for an increase
- 5 from \$104 in 2020 to \$122 in 2021 and its escalation factor increase of 2.51% per year
- 6 between 2022 and 2025.

7

8 2.1.9. Specific Charge to Access Power Poles - Wireline

- 9 For the 2016-2020 period, Hydro Ottawa secured approval from the OEB for a utility-specific
- 10 rate of \$53 per pole per year. For the 2021 Test Year, Hydro Ottawa intends to move to the
- 11 OEB's generic rate of \$45.39, consistent with the policy established by the OEB in 2018.⁵ The
- 12 OEB's approved 2020 inflationary factor has been used to increase the provincially approved
- 13 rate for 2021, and an escalation factor increase of 2.51% per year between 2022 and 2025.

14

15 **2.1.10. Dry Core Transformer Charge**

- 16 On an annual basis, these charges are updated to reflect the new Regulated Price Plan ("RPP")
- 17 prices, transmission rates, and Hydro Ottawa's distribution rates. Please see UPDATED Exhibit
- 18 8-7-1: Specific Service Charges and UPDATED Attachment 8-7-1(B): Dry Core Calculations for
- 19 more information. The distribution portion of the revenues for 2021-2025 are based on
- 20 estimated bill impacts of the commercial customers that are charged for dry core transformers.

21

22 2.2. HIGH LEVEL SSC VARIANCE ANALYSIS

23 **2.2.1. 2016** Actual to 2017 Actual

- 24 SSC revenues for 2017 were \$700K (11%) below 2016 actuals. The main driver was a one-time
- 25 \$549K recognition of miscellaneous revenue in 2016. A contingent liability was booked in
- 26 relation to a customer payment received prior to a bankruptcy proceeding. This liability was
- 27 reversed once the provision recognition criteria no longer applied. Further, the introduction of

²⁸ Ontario Energy Board, *Report of the Ontario Energy Board - Wireline Pole Attachment Charge*, EB-2015-0304 (March 22, 2018).



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- 1 the Disconnection Moratorium for residential customers in 2017 reduced the overall volume of
- 2 reconnection activity and by extension, revenues in 2017 by approximately \$130K.

3

- 4 2.2.2. 2017 Actual to 2018 Actual
- 5 SSC revenues in 2018 were \$221K (4%) above 2017 actuals. This increase was primarily due
- 6 to an increase in Collection of Account revenue of \$134K (27.8%) and Pole Attachment revenue
- 7 of \$121K (3.6%), due to higher than historical field collection activity and a higher than
- 8 forecasted increase in actual pole attachments.

9

- 10 2.2.3. 2018 Actual to 2019 Bridge Year
- 11 SSC revenues for 2019 are forecasted to be \$157K (3%) below 2018 actuals. The main driver is
- 12 the removal of the Collection of Account Charge for residential customers, effective July 1,
- 13 2019, in compliance with the Phase 1 amendments to the OEB's Customer Service Rules.⁶

14

- 15 **2018 Actual to 2019 Actual**
- 16 SSC revenues in 2019 were \$170K (3%) below 2018 actuals. The main driver is the removal of
- 17 the Collection of Account Charge for residential customers, effective July 1, 2019, in compliance
- with the Phase 1 amendments to the OEB's Customer Service Rules.

19

- 20 **2.2.4. 2019** Bridge Year to 2020 Bridge Year
- 21 SSC revenues for 2020 are forecasted to be \$21K (0.3%) above the 2019 forecast. There are
- 22 no variances of material value to note. Modest revenues from wireless pole attachments are
- 23 forecasted in 2020.

- 25 2019 Actual to 2020 Bridge Year
- 26 SSC revenues for 2020 are forecasted to be \$34K (0.6%) above the 2019 actuals.

²⁷ Ontario Energy Board, *Notice of Amendments to Codes and a Rule: Amendments to the Distribution System Code*,

²⁸ Standard Supply Service Code, Unit Sub-metering Code, and Gas Distribution Access Rule (and Associated Rate

²⁹ Order), EB-2017-0183 (March 14, 2019).



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1 2.2.5. 2020 Bridge Year to 2021 Test Year

- 2 SSC revenues in 2021 are forecasted to be \$0.5M (8%) below the 2020 forecast. The reasons
- 3 for this reduction are noted in section 2.1 above. The annual increase from 2021-2025 is
- 4 primarily due to the escalation factor applied to the rates each year. One exception is wireless
- 5 pole attachments, where volumes are expected to increase by 200 units on an annual basis out
- 6 to 2025.

7

8 2.3. SSC FORECAST AND VARIANCE ANALYSIS

- 9 Each SCC is forecasted based on the rate factored by the estimated volume. Tables 2 and 3
- 10 below provide the revenue actuals and forecast for each SSC. Table 2 has been updated to
- 11 account for 2019 actuals.

- 13 Thereafter, Hydro Ottawa provides an analysis for each SCC of the difference in revenues that
- 14 are expected between the 2016-2020 and 2021-2025 rate periods.



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Table 2 – AS ORIGINALLY SUBMITTED – Specific Service Charge Revenue 2016-2020 (\$'000s)

2 (\$'0)	00s)					
Out of the Out of the Observer Developer	His	torical Yea	rs	Bridge Years		
Specific Service Charge Revenue	2016	2017	2018	2019	2020	
Customer Administration						
Account Certificate	\$4	\$3	\$2	\$4	\$2	
Easement Certificate for Unregistered Easements	\$0	\$0	\$0	\$0	\$0	
Duplicate invoices for previous billing	\$3	\$2	\$3	\$2	\$3	
Special Billing Service	\$4	\$4	\$6	\$5	\$5	
Credit Reference/Credit Check (+ credit agency costs)	\$0	\$2	\$1	\$1	\$1	
Unprocessed Payment Charge	\$36	\$33	\$32	\$33	\$30	
Account Set Up Charge / Change of Occupancy Charge	\$1,870	\$1,775	\$1,696	\$1,733	\$1,696	
Reconnect at Meter						
Regular Hours	\$15	\$5	\$4	\$6	\$4	
After Regular Hours	\$5	\$1	\$0	\$2	\$1	
Interval Meter - Field Reading	\$1	\$1	\$32	\$5	\$2	
High Bill Investigation - If Billing is Correct	\$3	\$3	\$1	\$2	\$2	
Non-Payment of Account						
Collection of Account Charge - No Disconnection	\$11	\$5	\$139	\$69	\$0	
Reconnect at Meter		•	•	-		
Regular Hours	\$237	\$170	\$154	\$145	\$154	
After Regular Hours	\$162	\$113	\$125	\$84	\$111	
Reconnect at Pole						
Regular Hours	\$3	\$3	\$3	\$3	\$3	
After Regular Hours	\$1	\$1	\$1	\$0	\$1	
Other						
Temporary Service - Install and Remove						
Overhead - no transformer	\$5	\$11	\$8	\$12	\$11	
Underground - no transformer	\$6	\$24	\$25	\$25	\$25	
Overhead - with transformer	\$6	\$12	\$9	\$6	\$9	
Specific Access to Power Poles		•	•	1		
Wireline Pole Attachments	\$3,218	\$3,296	\$3,417	\$3,356	\$3,415	
Wireless Pole Attachments	\$0	\$0	\$0	\$0	\$34	
Drycore Transformer Distribution Charge	\$23	\$27	\$32	\$42	\$46	
Energy Resource Facilities Charge	\$0	\$0	\$0	\$0	\$0	
TOTAL ⁷	\$6,160	\$5,490	\$5,691	\$5,535	\$5,555	

⁴ Totals may not sum due to rounding.

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2

Table 2 – UPDATED FOR 2019 ACTUALS – Specific Service Charge Revenue 2016-2020 (\$'000s)

Historical Years Bridge									
Specific Service Charge Revenue		Years							
	2016	2017	2018	2019	2020				
Customer Administration									
Account Certificate	\$4	\$3	\$2	\$6	\$2				
Easement Certificate for Unregistered Easements	\$0	\$0	\$0	\$0	\$0				
Duplicate invoices for previous billing	\$3	\$2	\$3	\$2	\$3				
Special Billing Service	\$4	\$4	\$6	\$9	\$5				
Credit Reference/Credit Check (+ credit agency costs)	\$0	\$2	\$1	\$2	\$1				
Unprocessed Payment Charge	\$36	\$33	\$32	\$38	\$30				
Account Set Up Charge / Change of Occupancy Charge	\$1,870	\$1,775	\$1,696	\$1,690	\$1,696				
Reconnect at Meter		<u>.</u>							
Regular Hours	\$15	\$5	\$4	\$3	\$4				
After Regular Hours	\$5	\$1	\$0	\$1	\$1				
Interval Meter - Field Reading	\$1	\$1	\$32	\$5	\$2				
High Bill Investigation - If Billing is Correct	\$3	\$3	\$1	\$2	\$2				
Non-Payment of Account									
Collection of Account Charge - No Disconnection	\$11	\$5	\$139	\$18	\$0				
Reconnect at Meter									
Regular Hours	\$237	\$170	\$154	\$176	\$154				
After Regular Hours	\$162	\$113	\$125	\$42	\$111				
Reconnect at Pole									
Regular Hours	\$3	\$3	\$3	\$3	\$3				
After Regular Hours	\$1	\$1	\$1	\$0	\$1				
Other									
Temporary Service - Install and Remove									
Overhead - no transformer	\$5	\$11	\$8	\$10	\$11				
Underground - no transformer	\$6	\$24	\$25	\$34	\$25				
Overhead - with transformer	\$6	\$12	\$9	\$9	\$9				
Specific Access to Power Poles									
Wireline Pole Attachments	\$3,218	\$3,296	\$3,417	\$3,432	\$3,415				
Wireless Pole Attachments	\$0	\$0	\$0	\$0	\$34				
Drycore Transformer Distribution Charge	\$23	\$27	\$32	\$39	\$46				
Energy Resource Facilities Charge	\$0	\$0	\$0	\$0	\$0				
TOTAL ⁸	\$6,160	\$5,490	\$5,691	\$5,522	\$5,555				

³ ⁸ Totals may not sum due to rounding.

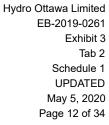




Table 3 – Specific Service Charge Revenue 2021-2025 (\$'000s)

	(, ,						
Specific Service Charge Revenue	Test Years						
	2021	2022	2023	2024	2025		
Customer Administration							
Arrears Certificate (formerly Account Certificate)	\$0	\$0	\$0	\$0	\$0		
Easement Certificate for Unregistered Easements	\$8	\$8	\$8	\$8	\$8		
Duplicate invoices for previous billing	\$1	\$1	\$1	\$1	\$1		
Special Billing Service	\$6	\$6	\$6	\$7	\$7		
Credit Reference/Credit Check (+ credit agency costs)	\$2	\$3	\$3	\$3	\$3		
Unprocessed Payment Charge	\$50	\$52	\$54	\$54	\$56		
Account Set Up Charge / Change of Occupancy Charge	\$1,413	\$1,470	\$1,526	\$1,526	\$1,583		
Reconnect at Meter							
Regular Hours	\$4	\$4	\$4	\$4	\$4		
After Regular Hours	\$0	\$0	\$0	\$0	\$0		
Interval Meter - Field Reading	\$1	\$1	\$1	\$1	\$1		
High Bill Investigation - If Billing is Correct	\$2	\$2	\$3	\$3	\$3		
Non-Payment of Account							
Collection of Account Charge - No Disconnection	\$0	\$0	\$0	\$0	\$0		
Reconnect at Meter							
Regular Hours	\$159	\$164	\$168	\$171	\$176		
After Regular Hours	\$60	\$62	\$64	\$65	\$67		
Reconnect at Pole							
Regular Hours	\$4	\$4	\$4	\$5	\$5		
After Regular Hours	\$1	\$1	\$1	\$1	\$1		
Other							
Temporary Service - Install and Remove							
Overhead - no transformer	\$12	\$12	\$12	\$12	\$13		
Underground - no transformer	\$26	\$26	\$27	\$28	\$28		
Overhead - with transformer	\$9	\$10	\$10	\$10	\$10		
Specific Access to Power Poles							
Wireline Pole Attachments	\$3,240	\$3,373	\$3,512	\$3,657	\$3,808		
Wireless Pole Attachments	\$69	\$142	\$217	\$295	\$376		
Drycore Transformer Distribution Charge	\$49	\$53	\$56	\$59	\$63		
Energy Resource Facilities Charge	\$0	\$0	\$0	\$0	\$0		
TOTAL ⁹	\$5,118	\$5,394	\$5,679	\$5,910	\$6,213		

² Totals may not sum due to rounding.



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1 2.3.1. Arrears Certificate

- 2 For the Arrears Certificate (formerly Account Certificate), Hydro Ottawa will continue to use the
- 3 standard provincial rate for 2020 and increase by its escalation factor of 2.51% per year starting
- 4 in 2021 through 2025.

5

6 Variance analysis:

- 7 Future demand for this service is expected to be lower than Historical Years, partially due to the
- 8 separation of the Easement Certificate for Unregistered Easements charge, as noted in 2.3.2
- 9 below. Therefore, the volume and estimated revenue is set at zero. Hydro Ottawa wishes to
- 10 maintain this charge in the event that customers should require this service.

11

12 2.3.2. Easement Certificate for Unregistered Easements

- 13 Hydro Ottawa is proposing to introduce a new charge for Easement Certificate for Unregistered
- 14 Easements, which was previously embedded in the Account Certificate Charge.

15

16 Variance analysis:

- 17 Most historical revenues were associated with this service. A new rate of \$25 is proposed for
- 18 2021 and will be increased annually by 2.51% per year through to 2025. This rate is reflective of
- 19 the cost to offer this service. The estimated revenue is based upon a volume of 320 requests
- 20 per year.

21

22 2.3.3. Duplicate Invoices for Previous Billing

- 23 Hydro Ottawa is proposing to reduce the current 2020 rate of \$15 to \$5 in 2021 and adjust the
- 24 rate annually by 2.51% through to 2025. Further automation of this service provision has
- 25 reduced costs and, hence, the rate. The forecasted volume is based upon historical trends,
- 26 which are modest at 170 requests per year.



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1 Variance analysis:

- 2 There are no material differences in actual versus budgeted revenues for the 2016-2018 period
- 3 or in the year-over-year revenue forecast from 2016-2025. The lower revenue forecast, as of
- 4 2021, reflects the proposed reduced rate.

5

6 2.3.4. Special Billing Service

- 7 The Special Billing Service charge (formerly Request for other Billing Information) was
- 8 introduced as part of Hydro Ottawa's 2016-2020 rate application. 10 It was applied to all requests
- 9 for customized billing information that involves sourcing, compiling, and presenting several
- 10 months or years of billing information for customers or their agents. Hydro Ottawa is proposing a
- 11 rate of \$122 in 2021 and making an annual adjustment of 2.51% through to 2025. This rate
- 12 reflects the Hydro Ottawa labour rate for this labour-intensive service. The volume estimated is
- 13 expected to remain similar to the 2016-2020 period.

14

15 Variance analysis:

- 16 There are no material revenue differences in actual versus budgeted revenues during the
- 17 2016-2018 period or year-over-year during the 2016-2025 period.

18

19 2.3.5. Credit Reference/Credit Check

- 20 Hydro Ottawa will continue to apply the standard provincial rate of \$15 for 2020 and adjust
- 21 annually in accordance with its escalation factor, beginning in 2021 through 2025. The volume
- 22 estimate will continue to be based on historical trends with a forecast of 66 per year. This is in
- 23 line with the 2016-2018 actual volumes.

24

25 Variance analysis:

- 26 There are no material differences in actual versus budgeted revenues for the 2016-2018 period,
- 27 or in the year-over-year revenue forecast over the 2016-2025 period.

. .

²⁸ ¹⁰ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).



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1 2.3.6. Unprocessed Payment Charge

2 Hydro Ottawa is proposing to increase the current 2020 rate of \$15 to \$25 in 2021 and apply its escalation factor of 2.51% annually through to 2025. The proposed rate increase is based upon internal costing analysis which determined insufficient cost recovery for this service. Costs associated with this service include internal costs for administering an unprocessable payment (i.e. non-sufficient funds or "NSF"), labour, and bank fees. Annual volume estimates for the 2021-2025 rate period are estimated to be 2,000. The increase in revenue between 2021 and 2025 reflects the proposed, revised service charge.

9

10 Variance analysis:

There were no material differences in actual versus budgeted revenue for the 2016-2018 period or in year-over-year for the 2016-2025 period. The increase in revenue forecast, as of 2021, is a reflection of the new proposed rate.

14

15 2.3.7. Account Set Up Charge/Change of Occupancy Charge

Hydro Ottawa is proposing to reduce the current 2020 rate of \$30 to \$25 in 2021 and increase by 2.51% annually through to 2025. The proposed new rate reflects labour savings due to a streamlined customer Move-In/Move-Out process, which enables the Contact Centre to complete 50% of customer moves. The volume estimate for the last rate application estimated 1% growth per year. Actual volumes from 2016-2020 have averaged 56,500 moves on an annual basis. Therefore, the 2018 actual volume has been applied from 2021-2025.

22

Variance analysis:

Hydro Ottawa is trending below budget from 2016-2018 by \$122K, \$237K, and \$336K, respectively. While the budget assumed 1% growth in account setup revenue year-over-year, actuals are showing a decline of about 5% from 2016 to 2017 and 4% from 2017 to 2018. The associated reduction in forecasted revenue through 2025, as of 2021, reflects the reduced service charge rate.



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1 2.3.8. Interval Meter - Field Reading

- 2 Hydro Ottawa is proposing to reduce the current 2020 rate of \$378 to \$314 in 2021 and apply its
- 3 annual escalation factor of 2.51% through to 2025. The main driver of the reduced rate is to
- 4 align this business practice with other field practices, which provides a Hydro Ottawa
- 5 representative field visit once without charge. As such, Hydro Ottawa is no longer proposing to
- 6 include the cost of an initial visit to obtain an interval meter field reading. The volume estimate is
- 7 based on recent annual trends.

8

Variance analysis:

10 There are no material revenue differences year-over-year for the 2016-2025 period.

11

12 2.3.9. High Bill Investigation - If Billing is Correct

- 13 Hydro Ottawa proposes to continue with the 2020 utility-specific rate and adjust by its annual
- 14 escalation factor of 2.51% between 2021 to 2025. The forecasted volume has been reduced to
- 15 align with recent trending.

16

17 Variance analysis:

18 There are no material revenue differences year-over-year for the 2016-2025 period.

19

20 2.3.10. Collection of Account Charge

- 21 This charge was removed, effective July 1, 2019, in accordance with the implementation of
- 22 Phase 1 of the OEB's Customer Service Rules.

23

4 Variance analysis:

- 25 Actual revenues exceeded budget in 2018 due to increased use of this charge to offset some of
- 26 the costs associated with rolling a truck to hand deliver a 48-hour warning notice, in advance of
- 27 disconnection action. In 2019, Hydro Ottawa implemented an automated notification solution as
- 28 the primary option for communication of the 48-hour disconnection notice. As a result, the
- 29 revenue forecast for 2019 and 2020 has been reduced to reflect the lower than historical



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1 premise visits associated with providing a 48-hour warning notice to customers scheduled to be

2 disconnected for non-payment.

3

4 2.3.11. Reconnect at Meter during Regular Hours

- 5 Hydro Ottawa shall continue to apply the standard provincial rate for 2020 and apply its annual
- 6 escalation factor of 2.51% for the 2021-2025 period. The increasing availability of automated
- 7 meter reconnections has reduced internal costs and has therefore allowed full cost recovery
- 8 within the current rate. The estimated volumes for 2021-2025 are based upon 2018 actuals.

9

10 Variance analysis:

- 11 Hydro Ottawa trended below budget in 2017 and 2018. This is primarily due to the
- 12 Disconnection Moratorium, which is effective annually from November 15th to April 30th.

13

14 2.3.12. Reconnect at Meter after Regular Hours

- 15 Hydro Ottawa is proposing to reduce the current 2020 rate of \$185 to \$100 in 2021 and apply its
- annual escalation factor of 2.51% through to 2025. Based upon 2017 and 2018 actual volumes,
- 17 the volume estimates for 2021-2025 are slightly lower than the historical forecast.

18

19 Variance analysis:

- 20 There are no material differences in actual versus budgeted revenues for the 2016-2018 period
- 21 or in year-over-year for the 2016-2025 period. The reduced revenue forecast as of 2021 reflects
- 22 the reduced charge.

23

4 2.3.13. Reconnect at Pole during Regular Hours

- 25 Hydro Ottawa is proposing to increase the current 2020 rate of \$185 to \$250 in 2021 and apply
- 26 its 2.51% escalation factor each year for the 2022-2025 period. An increase in this charge is
- 27 sought to recover associated labour and fleet costs. Reconnection at the pole is more costly,
- 28 because two specially-qualified employees are required due to the increased safety
- 29 requirements of pole work. While the volume was estimated at zero for the previous rate



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- 1 application, based upon more recent trending a volume of 17 per year is estimated for the
- 2 2021-2025 rate term.

3

4 Variance analysis:

- 5 Actual volume exceeded the zero forecast. There are no material differences in actual versus
- 6 budgeted revenues for the 2016-2018 period or in year-over-year for the 2016-2025 period.

7

8 2.3.14. Reconnect at Pole after Regular Hours

- 9 Hydro Ottawa will continue to adopt the standard provincial rate for 2020 and increase by the
- 10 annual escalation factor between 2021 and 2025. The volume estimate has been increased to
- 11 two per year for the 2021-2025 period, based upon recent trending.

12

3 Variance analysis:

- 14 Actuals were greater than forecast as these types of reconnections are relatively infrequent. As
- 15 such, a volume of zero was estimated for the period 2016-2020. The small volume reflects
- 16 actual revenue. There are no material revenue differences in actual versus budgeted for the
- 17 2016-2018 period or in year-over-year for the 2016-2025 period.

18

19 2.3.15. Temporary Service - Install & Remove

- 20 Temporary services cover the connection, metering, installation, and removal of required assets
- 21 to supply electrical energy on a planned temporary basis, as per Hydro Ottawa's Conditions of
- 22 Service. Transformer rental costs are included in the Temporary Service Install & Remove -
- 23 Overhead with transformer charge. Any additional material costs beyond the standard service,
- 24 such as the installation of a pole, the upgrade of a secondary buss, or new underground
- 25 transformer requirements will be charged in addition to this SSC and will be recorded as Other
- 26 Income and Deductions.



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- 1 Hydro Ottawa plans to continue with the 2020 utility-specific rates and increase them by its
- 2 annual escalation factor of 2.51% starting in 2021 through 2025. The volume estimate has been
- 3 based on the actual 2016-2018 values.

4

5 Variance analysis:

6 There are no material year-over-year revenue variances for the 2016-2025 period.

7

8 2.3.16. Specific Access to Power Poles - Wireline Attachments

- 9 Hydro Ottawa generates joint use revenue from third parties who place attachments on the
- 10 utility's poles. There are currently pole attachment agreements with 11 telecommunication
- 11 companies, and agreements with the City of Ottawa and Village of Casselman for streetlight
- 12 attachments. Hydro Ottawa has seen modest increases in the number of pole attachments from
- 13 2016-2020. This historical trend is the basis for the 2021-2025 forecasted volume. As of 2021,
- 14 Hydro Ottawa will be moving from the utility-specific wireline pole attachment rate of \$53.00 per
- 15 pole per year to the provincially approved rate of \$43.63. The generic provincial rate is adjusted
- 16 on January 1st each year, based upon the OEB-approved inflation factor. Please refer to Exhibit
- 17 8-7-1: Specific Service Charges for complete details on the updated rate.

18

9 Variance analysis:

- 20 Revenues in 2021 are forecasted to drop approximately \$175K over the 2020 forecast.
- 21 Between 2022 and 2025, revenues are expected to increase modestly.

22

23 2.3.17. Specific Access to Power Poles - Wireless Attachments

- 24 Hydro Ottawa currently has very few wireless pole attachment agreements. Revenues are only
- 25 expected to commence in 2020. In 2021, Hydro Ottawa intends to close the Deferral and
- 26 Variance Account established as part of the 2016-2020 rate application to record wireless pole
- 27 attachment revenue, as it is anticipated that revenue from this source can reasonably be
- 28 forecasted in the future. Please see Exhibit 9-1-3: Group 2 Accounts for further information.



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- 1 Future volume and revenues for wireless attachments have been based on estimates. Please
- 2 refer to Exhibit 8-7-1: Specific Service Charges for complete details on the wireless pole
- 3 attachment rate.

4

5 Variance analysis:

6 Revenues between 2020 and 2025 are expected to increase modestly.

7

8 2.3.18. Dry Core Transformer Charges

- 9 Dry Core transformer charges are applied to recover energy lost in the operation of dry core
- 10 transformers. A specific charge is calculated for each transformer size.

11

- 12 Hydro Ottawa is proposing to include rates for new sizes of transformers that are currently in the
- 13 utility's service area, as well as sizes in CSA-C802-94 that were not previously included in the
- 14 Schedule of Rates and Tariffs. In addition, Hydro Ottawa is proposing to calculate the dry core
- 15 transformer loss charge for any new size of transformer upon connection, based on the
- 16 approved dry core rate design. Hydro Ottawa proposes to add new dry core transformers to the
- 17 Schedule of Rates and Tariffs on an annual basis as part of the utility's annual rate adjustment
- 18 applications during the 2021-2025 period. Please see **UPDATED** Exhibit 8-7-1: Specific Service
- 19 Charges for further details on the Dry Core transformer charges.

20

21 Variance analysis:

- 22 There are no material year-over-year revenue variances for the 2016-2025 period. Hydro
- 23 Ottawa has used historical trending to estimate the revenue for 2021-2025.

24

25 **2.3.19. Miscellaneous Revenue**

- 26 There was a one-time \$549K recognition of miscellaneous revenue in 2016. This contingent
- 27 liability was reversed as the provision recognition criteria were no longer applicable.



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1 3. LATE PAYMENT CHARGES

2 An OEB-approved monthly interest rate of 1.5% (effective annual rate of 19.56% per annum or

- 3 0.04896% compounded daily rate) is applied to outstanding account balances that exceed 16
- 4 calendar days from the date on which the bill was issued to the customer. Effective March 1,
- 5 2020, the minimum payment period will be extended to 20 calendar days, in accordance with
- 6 Phase 1 of the OEB's Review of Customer Service Rules.

7

- 8 A decline in Late Payment Charge revenue is forecasted, taking into account the continued
- 9 promotion of automated payment withdrawal services, effective use of the Auto Dialer tool
- 10 during the Disconnection Moratorium timeframe, and additional proposed OEB Customer
- 11 Service Rule changes. 11 As originally submitted, Late Payment Charge revenue is expected to
- 12 decline to \$1.0M for the years 2020-2025. After accounting for 2019 actuals, Late Payment
- 13 Charge revenue is expected to remain flat at \$1.0M for the years 2020-2025.

14

15 4. OTHER OPERATING REVENUES

- 16 Other Operating Revenues include revenue associated from the provision of Standard Supply,
- 17 Retailer, and Generator services. Tables 4 and 5 show Historical Year (2016-2018), Bridge Year
- 18 (2019-2020), and Test Year (2021-2025) revenue for Other Operating Revenues. Table 4 has
- 19 been updated to account for 2019 actuals, and shows Historical Years (2016-2019) and Bridge
- 20 Year (2020) revenue for Other Operating Revenues. Table 5 remains unchanged and displays
- 21 revenue for Other Operating Revenues for the 2021-2025 Test Years.

^{. .}

²² ¹¹ Ontario Energy Board, Letter re: Review of Customer Service Rules for Electricity and Gas (Phase 2),

²³ EB-2017-0183 (October 25, 2018).



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Table 4 – AS ORIGINALLY SUBMITTED – Other Operating Revenue 2016-2020 (\$'000s)

Other Operating Revenue	Hi	storical Yea	Bridge Years		
	2016	2017	2018	2019	2020
Standard Supply Administration	\$951	\$960	\$973	\$958	\$936
Retailer Services	\$160	\$135	\$122	\$157	\$188
Generator Services	\$257	\$316	\$342	\$378	\$403
TOTAL ¹²	\$1,368	\$1,412	\$1,438	\$1,492	\$1,527

3 Table 4 – UPDATED FOR 2019 ACTUALS – Other Operating Revenue 2016-2020 (\$'000s)

Other Operating Revenue		Bridge Years			
	2016	2017	2018	2019	2020
Standard Supply Administration	\$951	\$960	\$973	\$996	\$936
Retailer Services	\$160	\$135	\$122	\$108	\$188
Generator Services	\$257	\$316	\$342	\$387	\$403
TOTAL ¹³	\$1,368	\$1,412	\$1,438	\$1,491	\$1,527

Table 5 - Other Operating Revenue 2021-2025 (\$'000s)

Other Operating Revenue	Test Years					
	2021	2022	2023	2024	2025	
Standard Supply Administration	\$2,346	\$2,444	\$2,543	\$2,642	\$2,742	
Retailer Services	\$165	\$148	\$133	\$119	\$107	
Generator Services	\$279	\$293	\$296	\$299	\$314	
TOTAL ¹⁴	\$2,790	\$2,885	\$2,971	\$3,060	\$3,163	

4.1. STANDARD SUPPLY SERVICE ADMINISTRATION CHARGE

- 8 The Standard Supply Service Administration Charge ("SSS Charge") is an administrative charge
- 9 that allows Hydro Ottawa to recover its costs of providing standard supply service to all

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

7

2

4

^{10 12} Totals may not sum due to rounding.

¹¹ Totals may not sum due to rounding.

^{12 &}lt;sup>14</sup> Totals may not sum due to rounding.



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1 customers who are not enrolled with a Retailer. The SSS Charge was introduced on May 11,

2 2005 as part of the 2006 EDR. 15

3

The monthly SSS Charge of \$0.25 per customer per month has not been adjusted to reflect actual costs or inflation since implementation. In light of the OEB's review of miscellaneous service charges, as announced on November 5, 2015, it is anticipated that this rate will be updated. Until such time, Hydro Ottawa is proposing to increase the SSS Charge to align with the 2021-2025 Retailer Services, Distributor-Consolidated Billing monthly charge. The corresponding increase will result in customers paying an equal service charge regardless of electricity service provider, and the pricing between Hydro Ottawa and the Retailer will be relatively maintained.

12

This approach will also ensure that Hydro Ottawa will not lose revenue regardless of what supply choice the customer makes. Please refer to UPDATED Exhibit 8-7-1: Specific Service Charges for further details on the SSS Charge rate design.

16

17 Variance analysis:

- 18 Overall net customer growth has resulted in slightly higher revenue than forecasted. In addition,
- 19 a lower number of retail customers than anticipated has increased the number of customers
- 20 being charged the SSS Charge, as opposed to Hydro Ottawa collecting customer-related
- 21 charges from Retailers. As a result, a similar decrease in revenue has occurred related to
- 22 Retailer Service Charges. The net impact of these two variances has resulted in an average of
- 23 \$44.2K higher revenues related to the SSS Charge on a yearly basis during the 2016-2018
- 24 period. This trend continued in 2019.

25

26 4.2. RETAILER SERVICES

- 27 Retailer Service Charges ("RSCs") recover the costs of services that Hydro Ottawa provides to 28 electricity retailers, or their customers, in relation to the competitive supply of energy. The
- ²⁹ ¹⁵ Ontario Energy Board, *2006 Electricity Distribution Rate Handbook* (May 11, 2005), page 126.
- ³⁰ Ontario Energy Board, Letter re: *Review of Miscellaneous Rates and Charges*, EB-2015-0304 (November 5, 2015).



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- 1 revenue generated from the RSCs have declined annually due to a reduction in the number of
- 2 customers enrolled with a Retailer. Notwithstanding the decrease in retailer-enrolled customers,
- 3 Hydro Ottawa's expenses related to these services have remained constant.

4

- 5 Hydro Ottawa intends to apply the OEB generic rates for RSCs. Please see Exhibit 8-4-1: Retail
- 6 Service Charges for more information on the 2021-2025 RSCs.

7

8 Variance analysis:

- 9 RSCs are mainly driven by the number of customers who are enrolled with a retailer. As the
- 10 number of retail customers has been lower than that which was estimated in the utility's
- 11 2016-2020 rate application, less revenue has been collected. On average, \$40.2K less revenue
- 12 has been collected per year over the 2016-2018 period.

13

14 4.3. GENERATOR SERVICES

- 15 Monthly fixed charges for generation customers, other than the microFIT charge, were
- 16 introduced in Hydro Ottawa's 2016-2021 rate application to reflect the cost of managing these
- 17 accounts. The microFIT charge was requested to be a utility-specific charge in order to reflect
- 18 the cost of managing related accounts. Hydro Ottawa has reviewed these charges and is
- 19 proposing to update and continue using them for the 2021-2025 period.

20

- 21 As a result of greater efficiencies in managing an increasing number of generators, Hydro
- 22 Ottawa is proposing to reduce the current 2020 monthly rate of \$19 for microFit and Net
- 23 Metering customers to \$14 in 2021, and the current 2020 monthly rate of \$129 for FIT
- 24 customers to \$76 in 2021.

- 26 Hydro Ottawa proposes an increase to the rate for managing a small number of larger
- 27 generators from the 2020 rate of \$281 to \$314 in 2021.



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- 1 Hydro Ottawa proposes to increase the generation charges annually by 2.51% for 2022-2025.
- 2 This rate is consistent with the escalation rate applied to Hydro Ottawa's 2022-2025 operations,
- 3 maintenance and administration ("OM&A") expenses and the majority of other revenue rates as
- 4 part of this Application. For more details regarding the utility's proposed custom escalation rate
- 5 for its 2021-2025 rate term, please see **UPDATED** Exhibit 1-1-10: Alignment with the Renewed
- 6 Regulatory Framework.

7

- 8 For complete details on the design of generation charges, please refer to **UPDATED** Exhibit
- 9 8-7-1: Specific Service Charges.

10

11 Variance Analysis:

- 12 Fewer than expected generator contracts within Hydro Ottawa's service territory have come to
- 13 fruition. By extension, the number of generator connections has been lower than anticipated.
- 14 However, over the three-year period from 2016-2018 there is no material variance in revenue
- 15 from generation charges.

16

17 5. OTHER INCOME AND DEDUCTIONS

- 18 A fourth and final way in which Hydro Ottawa earns revenue is through the provision of services
- 19 to customers and third parties, property rental income from leased plant, gains (or losses) on
- 20 the disposal or retirement of utility property, the provision of services to Hydro Ottawa's affiliates,
- 21 and earning interest income on short-term investments.

22

These activities are classified under the Other Income and Deductions category as follows:

24

- Services to Third Parties, net of costs
- Property Rental Income
- Gains and Losses on Disposal of Utility Property
- SLA Services to Hydro Ottawa Affiliates, net of costs
- Interest and Dividend Income



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1 Tables 6 and 7 summarize Other Income and Deductions for the 2016-2025 period. The

2 revisions to 2016-2019 were made to remove some costs from rate base to non-distribution,

3 resulting in an increase in Other Revenue. The revision to 2020 was made to include the

4 offsetting entry to the regulatory asset for the Gains and Losses on Disposal of Fixed Assets

5 Variance Account, as described in UPDATED Exhibit 9-1-3: Group 2 Accounts. The update in

6 2020-2022 was made as a result of the updated MiGen project, as described in the updates to

7 section 2.3.3 in Attachment 2-4-3(E): Material Investments.

8

Table 6 – AS ORIGINALLY SUBMITTED – Other Income and Deductions 2016-2020

10 **(\$'000s)**

Other Income and Deductions	His	storical Yea	Bridge Years		
Other income and beductions	2016	2017	2018	2019	2020
Services to Third Parties (net of costs)	\$949	\$1,021	\$254	\$489	\$1,182
Property Rental Income	\$606	\$629	\$557	\$547	\$516
Gains and (Losses) on Disposal of Utility Property	\$140	\$198	\$198	(\$486)	(\$301)
SLA Services to Hydro Ottawa Affiliates	\$2,063	\$3,305	\$3,797	\$4,439	\$4,683
SLA Costs from Hydro Ottawa Affiliates	\$0	\$0	\$0	(\$3,721)	(\$3,894)
Interest and Dividend Income	\$39	\$76	\$117	\$1	\$0
TOTAL ¹⁷	\$3,796	\$5,230	\$4,923	\$1,270	\$2,186

11 12

Table 6 – AS REVISED – Other Income and Deductions 2016-2020 (\$'000s)

Other Income and Deductions	His	storical Yea	Bridge Years		
	2016	2017	2018	2019	2020
Services to Third Parties (net of costs)	\$949	\$1,030	\$500	\$728	\$1,182
Property Rental Income	\$606	\$629	\$557	\$547	\$516
Gains and (Losses) on Disposal of Utility Property	\$140	\$198	\$198	(\$486)	\$198
SLA Services to Hydro Ottawa Affiliates	\$2,063	\$3,305	\$3,797	\$4,439	\$4,683
SLA Costs from Hydro Ottawa Affiliates	\$0	\$0	\$0	(\$3,721)	(\$3,894)
Interest and Dividend Income	\$39	\$76	\$117	\$1	\$0
TOTAL ¹⁸	\$3,796	\$5,239	\$5,168	\$1,508	\$2,685

^{13 &}lt;sup>17</sup> Totals may not sum due to rounding.

^{14 &}lt;sup>18</sup> Totals may not sum due to rounding.



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Table 6 – UPDATED FOR 2019 ACTUALS – Other Income and Deductions 2016-2020 (\$'000s)

Other Income and Deductions		Bridge Years			
	2016	2017	2018	2019	2020
Services to Third Parties (net of costs)	\$949	\$1,030	\$500	\$385	\$1,188
Property Rental Income	\$606	\$629	\$557	\$564	\$516
Gains and (Losses) on Disposal of Utility Property	\$140	\$198	\$198	\$198	\$198
SLA Services to Hydro Ottawa Affiliates	\$2,063	\$3,305	\$3,797	\$3,835	\$4,683
SLA Costs from Hydro Ottawa Affiliates	\$0	\$0	\$0	(\$3,187)	(\$3,894)
Interest and Dividend Income	\$39	\$76	\$117	\$33	\$0
TOTAL ¹⁹	\$3,796	\$5,239	\$5,168	\$1,828	\$2,691

3

 $^{^{4}\,\,}$ Totals may not sum due to rounding.



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Table 7 – AS ORIGINALLY SUBMITTED – Other Income and Deductions 2021-2025 (\$'000s)

Other Income and Deductions	Test Years						
	2021	2022	2023	2024	2025		
Services to Third Parties (net of costs)	\$1,133	\$1,140	\$974	\$1,130	\$1,117		
Property Rental Income	\$516	\$516	\$516	\$516	\$516		
Gains and (Losses) on Disposal of Utility Property	(\$389)	(\$751)	(\$323)	(\$336)	(\$445)		
SLA Services to Hydro Ottawa Affiliates	\$4,800	\$4,920	\$5,043	\$5,169	\$5,298		
SLA Costs from Hydro Ottawa Affiliates	(\$3,991)	(\$4,091)	(\$4,193)	(\$4,298)	(\$4,406)		
Interest and Dividend Income	\$0	\$0	\$0	\$0	\$0		
TOTAL ²⁰	\$2,069	\$1,733	\$2,017	\$2,181	\$2,081		

Table 7 – UPDATED FOR 2019 ACTUALS – Other Income and Deductions 2021-2025 (\$'000s)

Other Income and Deductions	Test Years						
	2021	2022	2023	2024	2025		
Services to Third Parties (net of costs)	\$1,170	\$1,097	\$974	\$1,130	\$1,117		
Property Rental Income	\$516	\$516	\$516	\$516	\$516		
Gains and (Losses) on Disposal of Utility Property	(\$389)	(\$751)	(\$323)	(\$336)	(\$445)		
SLA Services to Hydro Ottawa Affiliates	\$4,800	\$4,920	\$5,043	\$5,169	\$5,298		
SLA Costs from Hydro Ottawa Affiliates	(\$3,991)	(\$4,091)	(\$4,193)	(\$4,298)	(\$4,406)		
Interest and Dividend Income	\$0	\$0	\$0	\$0	\$0		
TOTAL ²¹	\$2,105	\$1,691	\$2,017	\$2,181	\$2,081		

8 5.1. SERVICES TO THIRD PARTIES

HydroOttawa

1

3

5

6

9 These revenues, net of expenses, relate to services provided to customers or third parties 10 beyond the standard temporary services included in Specific Service Charges (as itemized in 11 Tables 2 and 3 above). These additional services may include isolating and re-energizing 12 services, mutual aid services, transformer vault shutdown escort services, inspection services, 13 generator services, and a recently introduced bill reporting service. A small amount of revenue

^{14 20} Totals may not sum due to rounding.

^{15 &}lt;sup>21</sup> Totals may not sum due to rounding.



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1 is also forecasted for providing ad hoc web portal services for viewing interval meter data in a

2 web-based format. Services to the City of Ottawa and to affiliates for the aforementioned

3 services are included in USofA 4325 Revenues from Merchandise and 4330 Costs and

4 Expenses of Merchandising.

5

6 Hydro Ottawa rents out its underground civil capacity to third parties, on a temporary basis,

7 through a five-year Access Agreement. These duct rental agreements exist with the City of

8 Ottawa and a major telecommunications provider. Hydro Ottawa has several third parties which

9 pay the applicable Specific Service Charge for wireline pole attachments. These third parties

10 include street light owners, telecommunications providers, and Hydro One Networks Inc.

11 ("HONI").

12

13 5.2. PROPERTY RENTAL INCOME

14 Property rental relates to fees paid by HONI for land owned by Hydro Ottawa. In many locations

15 in the City of Ottawa, Hydro Ottawa and HONI have joint facilities for transformer stations. For

6 locations in which Hydro Ottawa owns the land on which HONI has facilities, a rental fee is paid.

17

18 An additional source of income is from rent paid by the tenants of a small number of houses that

19 were previously purchased by Hydro Ottawa and that are located adjacent to certain distribution

stations. These houses were purchased to facilitate future station expansion.

21

22 5.3. GAINS AND LOSSES ON DISPOSAL OF UTILITY PROPERTY

3 Hydro Ottawa periodically disposes of assets that are no longer necessary or re-usable in

serving the public (e.g. end-of-life assets, asset failure, damaged beyond repair, relocation

25 requests from third parties, surplus inventory, obsolescence, etc.). Where the proceeds vary

26 from the net book value of an asset, Hydro Ottawa treats the variances as a debit or credit to

27 income.



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1 Hydro Ottawa applies the associated gains and losses to USofA 1508 Other Regulatory Assets

2 - Sub-Account - Gains and Loss on Disposal of Fixed Assets Variance Account. Please refer to

3 UPDATED Exhibit 9-1-3: Group 2 Accounts for further details on Account 1508.

4

5 As per the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term, the

6 utility is recording the net gain on the sale of the Albion land and building, as well as the

7 Merivale land and building, in a separate regulatory account (Gains/Losses from Sale of

8 Existing Facilities Deferral account). This account captures 100% of the after tax net gain/loss

9 on the sale of these facilities. Please see **UPDATED** Exhibit 9-3-1: Group 2 Accounts for more

10 information on this Regulatory Account.

11

12 5.4. SERVICES TO HYDRO OTTAWA AFFILIATES

13 Hydro Ottawa provides services to its affiliates under the terms of Service Level Agreements

14 ("SLAs"), which are updated annually. These affiliates are Hydro Ottawa Holding Inc. (the

15 utility's parent company), as well as Energy Ottawa Inc. and Envari Holding Inc.

16

17 Hydro Ottawa provides Human Resources, Safety, Environment, Business Continuity, Facilities,

18 Information Technology and Management, Finance, Regulatory, Legal, Communications, Key

19 Account Support, Electricity Distribution Management, Meter Data, Fleet, and Mechanic

20 Services to its affiliates. As described in section 5.1 above, in addition to shared corporate

21 services Hydro Ottawa provides distribution design, flood restoration work, streetlight

22 conversion, and emergency response to Energy Ottawa. Table 8 below provides a summary of

3 all revenues earned from services provided to affiliates, whether through SLAs or other

24 contractual arrangements.

25

26 Additional detail on the services Hydro Ottawa provides to and receives from affiliates is

27 available in Exhibit 4-2-1: Shared Services and Corporate Cost Allocation.



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1 Consistent with section 2.4.3.2 of the Chapter 2 Filing Requirements for Electricity Distribution

2 Rate Applications, as updated on July 12, 2018 and addended on July 15, 2019, as well as with

3 OEB guidance issued in 2018, SLA costs are no longer included in OM&A.22 For additional

4 details, please see Exhibit 4-2-1: Shared Services and Corporate Cost Allocation and

5 UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and

6 Program Variance Analysis for additional details.

7

Prior to 2019, Hydro Ottawa recorded the SLA revenue in USofA 4325 as Revenues from

Merchandising and Jobbing, and applied the associated costs to OM&A. With the growth of

10 Hydro Ottawa's affiliates, the amounts charged to these affiliates and the associated costs

11 through SLAs have increased significantly, as outlined in UPDATED Attachment 3-2-1(B): OEB

12 Appendix 2-N - Shared Services and Corporate Cost Allocation. The costs, along with the

13 associated SLA revenue, are now reported in USofA 4330 Costs from Merchandising and

14 Jobbing and are therefore not included in OM&A as of 2019.

_

^{15 &}lt;sup>22</sup> Ontario Energy Board, Presentation re: *Chapter 1 & 2 Filing Requirements Update for 2019 Applications: Summary* 16 *of Key Changes* (July 19, 2018), slides 15-16.



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Table 8 – AS ORIGINALLY SUBMITTED – Summary of Total Affiliate Services Revenue

Earned by Hydro Ottawa

Provided	Provided	His	storical Year	s	Bridge	Test Year	
Ву	То	2016	2017	2018	2019	2020	2021
Hydro Ottawa	Holding Company	\$861,944	\$690,560	\$1,093,093	\$1,330,390	\$1,450,389	\$1,486,649
Hydro Ottawa	Energy Ottawa	\$1,357,368	\$3,144,697	\$2,997,085	\$2,156,286	\$1,669,891	\$1,711,638
Hydro Ottawa	Envari	\$0	\$0	\$0	\$1,688,131	\$1,562,625	\$1,601,691
TOTAL		\$2,219,312	\$3,835,257	\$4,090,179	\$5,174,807	\$4,682,905	\$4,799,978

Table 8 – UPDATED FOR 2019 ACTUALS – Summary of Total Affiliate Services Revenue

Earned by Hydro Ottawa

Provided	Provided		Historica	ıl Years		Bridge Years	Test Year
Ву	То	2016	2017	2018	2019	2020	2021
Hydro Ottawa	Holding Company	\$861,944	\$690,560	\$1,093,093	\$1,216,876	\$1,450,389	\$1,486,649
Hydro Ottawa	Energy Ottawa	\$1,357,368	\$3,144,697	\$2,997,085	\$1,955,383	\$1,669,891	\$1,711,638
Hydro Ottawa	Envari	\$0	\$0	\$0	\$1,656,960	\$1,562,625	\$1,601,691
TOTAL		\$2,219,312	\$3,835,257	\$4,090,179	\$4,829,219	\$4,682,905	\$4,799,978

7 5.5. INTEREST AND DIVIDEND INCOME

8 Interest income refers to interest earned on cash balances within the year.

- 10 In the years 2016-2018, a modest amount of interest was recorded under USofA Account 4405.
- 11 Material cash balances are not anticipated between 2019 and 2025.

6

9

3

5

2021 Hydro Ottawa Limited Electricity Distribution Rate Application



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1 5.6. VARIANCE ANALYSIS

2 5.6.1. 2016 Actual to 2017 Actual

- 3 Other Income and Deductions in 2017 increased by \$1.4M, primarily due to the \$1.2M increase
- 4 in SLA services to affiliates. Details are provided in Exhibit 4-2-1: Shared Services and
- 5 Corporate Cost Allocation.

6

7 **5.6.2. 2017** Actual to 2018 Actual

- 8 Other Income and Deductions in 2018 decreased by \$0.3M, due to a decrease in services
- 9 provided to third parties, net of costs.

10

11 **5.6.3. 2018 Actual to 2019 Bridge Year**

- 12 Other Income and Deductions are projected to decrease by \$3.7M in 2019 due to a \$3.7M SLA
- 13 cost allocation to USofA 4330 Costs from Merchandising and Jobbing. Additional information is
- 14 provided in section 5.4 above. Increased interest income is offset by losses on disposal of utility
- 15 property.

16

17 **2018 Actual to 2019 Actual**

- 18 Other Income and Deductions decreased by \$3.3M in 2019, due to a \$3.2M SLA cost allocation
- 19 to USofA 4330 Costs from Merchandising and Jobbing. Additional information is provided in
- 20 section 5.4 above.

21

22 **5.6.4. 2019** Bridge Year to 2020 Bridge Year

- 23 Other Income and Deductions in 2020 are projected to increase by \$0.9M. Services to third
- 24 parties are anticipated to increase.

25

26 2019 Actual to 2020 Bridge Year

- 27 Other Income and Deductions in 2020 are projected to increase by \$0.9M. Services to third
- 28 parties are anticipated to increase.



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1 5.6.5. 2020 Bridge Year to 2021 Test Year

- 2 Other Income and Deductions for the 2021-2025 Test Years are generally in line with 2020. A
- 3 slight increase is forecast in 2022 for loss on disposal of utility property due to a one-time
- 4 disposal of meters, as a result of an initiative focused on AMI analytics and integration.
- 5 Additional information on this project is available in Exhibit 2-4-3: Distribution System Plan and
- 6 Attachment 2-4-3(E): Material Investments. The changes in 2021 and 2022 are the result of the
- 7 updated MiGen project, as described in the updates to section 2.3.3 in Attachment 2-4-3(E):
- 8 Material Investments.

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TO BE UPDATED AT THE DRAFT RATE ORDER STAGE

UPDATED - Appendix 2-H Other Operating Revenue

USoA#	USoA Description	2016 Actual ²	2017 Actual ²	2018 Actual ²	2019 Actual	Bridge Year	Test Year	CGAAP
		2016	2017	2018	2019	2020	2021	Enter Transition Year
	Reporting Basis	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	CGAAP
4235	Specific Service Charges	\$ 6,160,176	\$ 5,490,013	\$ 5,691,198	\$ 5,522,197	\$ 5,555,141	\$ 5,118,168	
4225	Late Payment Charges	\$ 1,029,257	\$ 1,071,781	\$ 1,041,348	\$ 993,549	\$ 1,000,000	\$ 1,000,000	
4082	Retail Services Revenues	\$ 153,634	\$ 132,517	\$ 119,505	\$ 105,192	\$ 181,688	\$ 160,963	
4084	Service Transaction Requests	\$ 6,011	\$ 2,846	\$ 2,539	\$ 2,781	\$ 6,191	\$ 4,152	
4086	SSS Admin Charge	\$ 951,238	\$ 960,079	\$ 973,147	\$ 996,280	\$ 935,917	\$ 2,346,131	
4090	Electric Services Incidental to Energy Sales	\$ 257,117	\$ 316,106	\$ 342,351	\$ 386,619	\$ 403,212	\$ 278,736	
4315	Revenue from Leased Plant	\$ 1,611,576	\$ 1,648,672	\$ 1,579,127	\$ 1,586,139	\$ 1,975,128	\$ 1,975,128	
4325	Revenue from Merch, Jobbing	\$ 5,915,712	\$ 7,367,893	\$ 10,063,053	\$ 13,315,105	\$ 9,085,501	\$ 9,361,661	
4330	Expenses from Merch, Jobbing	-\$ 3,910,092	-\$ 4,051,521	-\$ 6,789,073	-\$ 13,304,887	-\$ 8,567,458	-\$ 8,842,835	
4355	Gain on Disposal of Property	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4360	Loss on Disposal of Property	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4362	Loss from Retirement of Utility and Other Property	\$ 140,117	\$ 198,349	\$ 198,349	\$ 198,349	\$ 198,349	-\$ 388,726	
4405	Interest and Dividend Income	\$ 38,905	\$ 75,768	\$ 116,864	\$ 33,097	\$ -	\$ -	
Specific Ser	rvice Charges	\$ 6,160,176	\$ 5,490,013	\$ 5,691,198	\$ 5,522,197	\$ 5,555,141	\$ 5,118,168	
Late Payme	ent Charges	\$ 1,029,257	\$ 1,071,781	\$ 1,041,348	\$ 993,549	\$ 1,000,000	\$ 1,000,000	
Other Opera	ating Revenues	\$ 1,367,999	\$ 1,411,547	\$ 1,437,542	\$ 1,490,872	\$ 1,527,008	\$ 2,789,981	
Other Incon	ne or Deductions	\$ 3,796,218	\$ 5,239,161	\$ 5,168,320	\$ 1,827,803	\$ 2,691,520	\$ 2,105,228	
Total		\$ 12,353,650	\$ 13,212,503	\$ 13,338,408	\$ 9,834,421	\$ 10,773,669	\$ 11,013,377	\$ -

Description Account(s) Specific Service Charges: 4235 Late Payment Charges: 4225

Other Distribution Revenues: 4082, 4084, 4090, 4205, 4210, 4215, 4220, 4230, 4240, 4245

Other Income and Expenses: 4305, 4310, 4315, 4320, 4325, 4330, 4335, 4340, 4345, 4350, 4357, 4360, 4362, 4365, 4370, 4375, 4380, 4385, 4390, 4395, 4398, 4405, 4410, 4415, 4420

Note: Add all applicable accounts listed above to the table and include all relevant information.

Account Breakdown Details

For each "Other Operating Revenue" and "Other Income or Deductions" Account, a detailed breakdown of the account components is required. See the example below for Account 4405, Interest and Dividend Income. Tables for the detailed breakdowns will be generated after cell B89 is filled in.

Example: Account 4405 - Interest and Dividend Income

	2010	6 Actual ²	20	17 Actual ²	20	18 Actual ²	20	19 Actual	Br	idge Year	Test Yea	ar
		2016		2017		2018		2019		2020	2021	
Reporting Basis	N	IIFRS		MIFRS		MIFRS		MIFRS		MIFRS	MIFRS	,
Short-term Investment Interest												
Bank Deposit Interest	\$	38,905	\$	75,768	\$	116,864	\$	933	\$	-	\$ -	
Miscellaneous Interest Revenue												
etc.1												
Total	\$	38,905	\$	75,768	\$	116,864	\$	933	\$	-	\$	-

CGAAP
Enter Transition Year
CGAAP
•
\$ -

Notes:

- List and specify any other interest revenue.
- In the transition year to IFRS, the applicant is to present information in both MIFRS and CGAAP. In column N, present CGAAP transition year information. For the typical applicant that adopted IFRS on January 1, 2015, 2014 must be presented in both a CGAAP and MIFRS basis. 2

Enter the number of "Other Operating Revenue" and "Other Income or Deductions" Accounts that require a detailed breakdown of the account components.

Please refer to Exhibit 3-2-1: Other Revenue, Tables 4 and 5 for a breakdown of "Other Operating Revenue" and Tables 6 and 7 for "Other Income and Deductions".

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UPDATED - Appendix 2-N Shared Services and Corporate Cost Allocation 1

ear:	201	16

Shared Services

N	lame of Company			Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То		Wethodology	\$	\$
HOL	HOHI	Communications	Cost	\$79,722	\$79,722
HOL	HOHI	Facilities	Market/Cost	\$238,441	\$127,795
HOL	HOHI	Finance	Cost	\$170,008	\$170,008
HOL	HOHI	Human Resources	Cost	\$128,904	\$128,904
HOL	HOHI	Information Technology	Cost	\$229,869	\$229,869
HOL	HOHI	Legal	Cost	\$15,000	\$15,000
Total Charged	HOL to HOHI			\$861,944	\$751,298
HOL	EO	Administration Support	Cost	\$48,145	\$48,145
HOL	EO	Communications	Cost	\$38,993	\$38,993
HOL	EO	Facilities	Market/Cost	\$88,389	\$62,078
HOL	EO	Finance	Cost	\$115,017	\$115,017
HOL	EO	Human Resources, Safety, Environment and Business Continuity Management	Cost	\$244,119	\$244,119
HOL	EO	Information Technology	Cost	\$459,738	\$459,738
HOL	EO	Meter Data Services	Market	\$73,453	*
HOL	EO	Mechanic Services	Cost	\$132,867	\$132,867
Total Charged	HOL to EO			\$1,200,721	\$1,100,957
HOL	CDM	Human Resources	Cost	\$105,358	\$105,358
HOL	CDM	Facilities	Market/Cost	\$50,373	\$30,810
HOL	CDM	Information Technology	Cost	\$187,880	\$187,880
HOL	CDM	Finance	Cost	\$118,536	\$118,536
HOL	CDM	Communications	Cost	\$32,820	\$32,820
HOL	CDM	Fleet	Cost	\$8,544	\$8,544
Total Charged	HOL to CDM			\$503,511	\$483,948

^{*} Meter Data Services costs related to Energy Ottawa are considered immaterial and not practicable to determine

Corporate Cost Allocation

Name of	Company	Service Offered	Pricing	% of Corporate Costs Allocated	Amount Allocated
From	То		Methodology	Allocated %	\$
HOHI	HOL	Management Services	Cost	46%	\$570,000
НОНІ	HOL	Finance, Internal Audit & Enterprise Risk Mgt	Cost	63%	\$1,220,000
НОНІ	HOL	Human Resources	Cost	92%	\$690,000
HOHI	HOL	Treasury	Cost	66%	\$260,000
HOHI	HOL	Corporate Communications	Cost	36%	\$455,760
HOHI	HOL	Legal, Corporate Admin	Cost	38%	\$240,000
HOHI	HOL	Information Management & Technology	Cost	60%	\$320,000
Total Charged from H	OHI to HOL				\$3,755,760
HOHI	CDM	Management Services	Cost	14%	\$175,060
Total Charged from H	OHI to CDM				\$175,060

Note:

This appendix must be completed in relation to each service provided or received for the Historical (actuals), Bridge and Test years. The required information includes:

Type of Service

Services such as billing, accounting, payroll, etc. The applicant must identify any costs related to the Board of Directors of the parent company that are allocated to the applicant.

· Pricing Methodology:

Pricing Methodology includes approaches such as cost-base, market-base, tendering, etc. The applicant must provide evidence demonstrating the pricing methodology used. The applicant must also provide a description of why that pricing methodology was chosen, whether or not it is in conformity with ARC, and why it is appropriate.

· % Allocation:

Hydro Ottawa Limited EB-2019-0261 Exhibit 3 Tab 2 Schedule 1 Attachment B UPDATED May 5, 2020 Page 2 of 5

UPDATED - Appendix 2-N Shared Services and Corporate Cost Allocation 1

Year: <u>2017</u>

Shared Services

N	lame of Company			Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То		Wethodology	\$	\$
HOL	ноні	Communications	Cost	\$21,130	\$21,130
HOL	ноні	Facilities	Market/Cost	\$119,806	\$63,543
HOL	НОНІ	Finance	Cost	\$41,113	\$41,113
HOL	НОНІ	Human Resources	Cost	\$141,807	\$141,807
HOL	НОНІ	Information Technology	Cost	\$357,451	\$357,451
HOL	НОНІ	Legal	Cost	\$5,688	\$5,688
Total Charged	HOL to HOHI			\$686,995	\$630,732
HOL	EO	Administration Support	Cost	\$76,780	\$76,780
HOL	EO	Communications	Cost	\$269,493	\$269,493
HOL	EO	Facilities	Market/Cost	\$123,068	\$80,393
HOL	EO	Finance	Cost	\$1,196,367	\$1,196,367
HOL	EO	Human Resources, Safety, Environment and Business Continuity Management	Cost	\$134,908	\$134,908
HOL	EO	Information Technology	Cost	\$516,867	\$516,867
HOL	EO	Legal	Cost	\$58,338	\$58,338
HOL	EO	Meter Data Services	Market	\$73,385	*
HOL	EO	Mechanic Services	Cost	\$169,200	\$169,200
Total Charged	HOL to EO			\$2,618,406	\$2,502,346
HOL	CDM	Human Resources	Cost	\$83,430	\$83,430
HOL	CDM	Facilities	Market/Cost	\$59,618	\$32,290
HOL	CDM	Information Technology	Cost	\$219,565	\$219,565
HOL	CDM	Finance	Cost	\$182,665	\$182,665
HOL	CDM	Communications	Cost	\$64,456	\$64,456
HOL	CDM	Fleet	Cost	\$8,544	\$8,544
Total Charged	HOL to CDM			\$618,278	\$590,950

^{*} Meter Data Services costs related to Energy Ottawa are considered immaterial and not practicable to determine

Corporate Cost Allocation

N:	ame of Company	Service Offered	Pricing	% of Corporate Costs	Amount
		Service Offered	Methodology	Allocated	Allocated
From	То			%	\$
НОНІ	HOL	Management Services	Cost	46%	\$570,000
НОНІ	HOL	Finance, Internal Audit & Enterprise Risk Mgt	Cost	65%	\$1,270,000
НОНІ	HOL	Human Resources	Cost	92%	\$820,000
НОНІ	HOL	Treasury	Cost	66%	\$260,000
НОНІ	HOL	Corporate Communications	Cost	33%	\$363,215
НОНІ	HOL	Legal, Corporate Admin	Cost	38%	\$240,000
НОНІ	HOL	Information Management & Technology	Cost	45%	\$270,000
Total Charged 1	from HOHI to HOL				\$3,793,215
НОНІ	CDM	Management Services	Cost	10%	\$106,785
Total Charged 1	from HOHI to CDM				\$106,785

Note:

1 This appendix must be completed in relation to each service provided or received for the Historical (actuals), Bridge and Test years. The required information includes:

Type of Service:

Services such as billing, accounting, payroll, etc. The applicant must identify any costs related to the Board of Directors of the parent company that are allocated to the applicant.

Pricing Methodology:

Pricing Methodology includes approaches such as cost-base, market-base, tendering, etc. The applicant must provide evidence demonstrating the pricing methodology used. The applicant must also provide a description of why that pricing methodology was chosen, whether or not it is in conformity with ARC, and why it is appropriate.

% Allocation:

Hydro Ottawa Limited EB-2019-0261 Exhibit 3 Tab 2 Schedule 1 Attachment B UPDATED May 5, 2020 Page 3 of 5

UPDATED - Appendix 2-N Shared Services and Corporate Cost Allocation 1

Year: <u>2018</u>

Shared Services

N	lame of Company	Service Offered	Pricing	Price for the Service	Cost for the Service
From	То		Methodology	\$	\$
HOL	ноні	Communications	Cost	\$234,981	\$234,981
HOL	НОНІ	Facilities	Market/Cost	\$130,939	\$71,421
HOL	НОНІ	Finance	Cost	\$41,642	\$41,642
HOL	ноні	Human Resources	Cost	\$150,465	\$150,465
HOL	ноні	Information Technology	Cost	\$325,518	\$325,518
HOL	НОНІ	Legal	Cost	\$9,048	\$9,048
HOL	ноні	Regulatory	Cost	\$139,811	\$139,811
HOL	НОНІ	Electricity Distribution Management	Cost	\$49,580	\$49,580
Total Charged	HOL to HOHI			\$1,081,984	\$1,022,466
HOL	EO	Electricity Distribution Management	Cost	\$49,580	\$49,580
HOL	EO	Communications	Cost	\$413,215	\$413,215
HOL	EO	Facilities	Market/Cost	\$118,036	\$63,903
HOL	EO	Finance	Cost	\$972,916	\$972,916
HOL	EO	Fleet	Cost	\$11,731	\$11,731
HOL	EO	Human Resources, Safety, Environment and Business Continuity Management	Cost	\$394,771	\$394,771
HOL	EO	Information Technology	Cost	\$488,280	\$488,280
HOL	EO	Legal	Cost	\$31,316	\$31,316
HOL	EO	Meter Data Services	Market	\$77,617	*
HOL	EO	Mechanic Services	Cost	\$157,282	\$157,282
Total Charged	HOL to EO			\$2,714,744	\$2,582,994
HOL	CDM	Human Resources	Cost	\$107,830	\$107,830
HOL	CDM	Facilities	Market/Cost	\$65,470	\$35,711
HOL	CDM	Information Technology	Cost	\$244,140	\$244,140
HOL	CDM	Finance	Cost	\$149,642	\$149,642
HOL	CDM	Communications	Cost	\$68,076	\$68,076
HOL	CDM	Fleet	Cost	\$17,784	\$17,784
Total Charged	HOL to CDM			\$652,942	\$623,183

^{*} Meter Data Services costs related to Energy Ottawa are considered immaterial and not practicable to determine

Corporate Cost Allocation

Name of	Company			% of Corporate	
		Service Offered	Pricing Methodology	Costs Allocated	Amount Allocated
From	То			%	\$
HOHI	HOL	Management Services	Cost	56%	\$685,479
HOHI	HOL	Finance, Internal Audit & Enterprise Risk Mgt	Cost	53%	\$970,752
НОНІ	HOL	Human Resources	Cost	80%	\$463,026
HOHI	HOL	Treasury	Cost	73%	\$102,694
HOHI	HOL	Corporate Communications	Cost	58%	\$546,685
НОНІ	HOL	Legal, Corporate Admin	Cost	23%	\$142,444
HOHI	HOL	Information Management & Technology	Cost	45%	\$311,256
Total Charged from H	OHI to HOL				\$3,222,336
HOHI	CDM	Management Services	Cost	11%	\$92,207
Total Charged from H	OHI to CDM				\$92,207

Note:

This appendix must be completed in relation to each service provided or received for the Historical (actuals), Bridge and Test years. The required information includes:

· Type of Service:

Services such as billing, accounting, payroll, etc. The applicant must identify any costs related to the Board of Directors of the parent company that are allocated to the applicant.

- · Pricing Methodology:
- · % Allocation:

UPDATED - Appendix 2-N Shared Services and Corporate Cost Allocation 1

Year: <u>2019</u>

Shared Services

Name of Company				Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То		Wethodology	\$	\$
HOL	HOHI	Electricity Distribution Management	Cost	\$49,044	\$49,044
HOL	HOHI	Communications	Cost	\$226,585	\$226,585
HOL	HOHI	Facilities	Market/Cost	\$168,648	\$87,629
HOL	HOHI	Finance	Cost	\$24,516	\$24,516
HOL	HOHI	Human Resources	Cost	\$140,810	\$140,810
HOL	HOHI	Information Technology	Cost	\$357,593	\$357,593
HOL	HOHI	Legal	Cost	\$9,984	\$9,984
HOL	HOHI	Regulatory	Cost	\$183,276	\$183,276
HOL	HOHI	Engineering Services	Cost	\$14,157	\$14,157
Total Charged I	HOL to HOHI			\$1,174,613	\$1,093,594
HOL	EO	Electricity Distribution Management	Cost	\$0	\$0
HOL	EO	Communications	Cost	\$184,462	\$184,462
HOL	EO	Facilities	Market/Cost	\$20,736	\$11,781
HOL	EO	Finance	Cost	\$455,147	\$455,147
HOL	EO	Human Resources, Safety, Environment and Business Continuity Management	Cost	\$146,482	\$146,482
HOL	EO	Information Technology	Cost	\$311,450	\$311,450
HOL	EO	Legal	Cost	\$24,960	\$24,960
HOL	EO	Regulatory Affairs	Cost	\$91,632	\$91,632
HOL	EO	Meter Data Services	Market	\$18,600	*
HOL	EO	Mechanic Services	Cost	\$158,043	\$158,043
Total Charged I	HOL to EO			\$1,411,512	\$1,383,957
HOL	CDM	Human Resources	Cost	\$77,864	\$77,864
HOL	CDM	Facilities	Market/Cost	\$35,231	\$15,635
HOL	CDM	Information Technology	Cost	\$165,690	\$165,690
HOL	CDM	Finance	Cost	\$57,500	\$57,500
HOL	CDM	Communications	Cost	\$63,672	\$63,672
HOL	CDM	Fleet	Cost	\$9,960	\$9,960
Total Charged I	HOL to CDM			\$409,917	\$390,321
HOL	Envari	Electricity Distribution Management	Cost	\$24,516	\$24,516
HOL	Envari	Communications	Cost	\$187,289	\$187,289
HOL	Envari	Facilities	Market/Cost	\$89,088	\$53,507
HOL	Envari	Finance	Cost	\$220,230	\$220,230
HOL	Envari	Fleet	Cost	\$9,781	\$9,781
HOL	Envari	Human Resources	Cost	\$136,267	\$136,267
HOL	Envari	Information Technology	Cost	\$346,057	\$346,057
HOL	Envari	Key Accounts	Cost	\$60,372	\$60,372
HOL	Envari	Legal	Cost	\$24,960	\$24,960
HOL	Envari	Regulatory	Cost	\$91,632	\$91,632
HOL	Envari	Data Services	Cost	\$58,278	\$58,278
Total Charged I	HOL to Envari			\$1,248,470	\$1,212,889

^{*} Meter Data Services costs related to Energy Ottawa are considered immaterial and not practicable to determine

Corporate Cost Allocation

	Service Offered	% of Corporate Costs Allocated	Amount Allocated	
То		Methodology	%	\$
HOL	Management Services	Cost	50%	\$525,476
HOL	Finance, Internal Audit & Enterprise Risk Mgt	Cost	67%	\$976,909
HOL	Human Resources	Cost	80%	\$434,491
HOL	Treasury	Cost	56%	\$76,900
HOL	Corporate Communications	Cost	55%	\$494,141
HOL	Legal, Corporate Admin	Cost	40%	\$140,123
HOL	Information Management & Technology	Cost	45%	\$319,920
m HOHI to HOL				\$2,967,960
CDM	Management Services	Cost	10%	\$105,817
m HOHI to CDM				\$105,817
	HOL HOL HOL HOL HOL HOL HOL HOL CDM	To HOL Management Services HOL Finance, Internal Audit & Enterprise Risk Mgt HOL Human Resources HOL Treasury HOL Corporate Communications HOL Legal, Corporate Admin HOL Information Management & Technology m HOHI to HOL CDM Management Services	To Methodology HOL Management Services Cost HOL Finance, Internal Audit & Enterprise Risk Mgt Cost HOL Human Resources Cost HOL Treasury Cost HOL Corporate Communications Cost HOL Legal, Corporate Admin Cost HOL Information Management & Technology Cost m HOHI to HOL CDM Management Services Cost	National Part National Par

Note:

- 1 This appendix must be completed in relation to each service provided or received for the Historical (actuals), Bridge and Test years. The required information includes:
- · Type of Service:

Services such as billing, accounting, payroll, etc. The applicant must identify any costs related to the Board of Directors of the parent company that are allocated to the applicant.

· Pricina Methodoloav:

Pricing Methodology includes approaches such as cost-base, market-base, tendering, etc. The applicant must provide evidence demonstrating the pricing methodology used. The applicant must also provide a description of why that pricing methodology was chosen, whether or not it is in conformity with ARC, and why it is appropriate.

· % Allocation

Appendix 2-N Shared Services and Corporate Cost Allocation 1

Year: 2020

Shared Services

N	Name of Company			Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То		Wethodology	\$	\$
HOL	HOHI	Electricity Distribution Management	Cost	\$53,330	\$53,330
HOL	HOHI	Communications	Cost	\$236,781	\$236,781
HOL	HOHI	Facilities	Market/Cost	\$215,451	\$118,800
HOL	HOHI	Finance	Cost	\$17,770	\$17,770
HOL	HOHI	Human Resources	Cost	\$196,225	\$196,225
HOL	НОНІ	Information Technology	Cost	\$515,803	\$515,803
HOL	HOHI	Legal	Cost	\$9,101	\$9,101
HOL	HOHI	Regulatory	Cost	\$205,928	\$205,928
Total Charged	HOL to HOHI			\$1,450,389	\$1,353,738
HOL	EO	Communications	Cost	\$187,177	\$187,177
HOL	EO	Facilities	Market/Cost	\$27,318	\$15,627
HOL	EO	Finance	Cost	\$466,908	\$466,908
HOL	EO	Human Resources, Safety, Environment and Business Continuity Management	Cost	\$217,072	\$217,072
HOL	EO	Information Technology	Cost	\$473,981	\$473,981
HOL	EO	Legal	Cost	\$22,754	\$22,754
HOL	EO	Regulatory Affairs	Cost	\$102,964	\$102,964
HOL	EO	Meter Data Services	Market	\$18,600	*
HOL	EO	Mechanic Services	Cost	\$153,117	\$153,117
Total Charged	HOL to EO			\$1,669,891	\$1,639,600
HOL	CDM	HR	Cost	\$35,385	\$35,385
HOL	CDM	Facilities	Market/Cost	\$17,697	\$9,025
HOL	CDM	Information Technology	Cost	\$75,825	\$75,825
HOL	CDM	Finance	Cost	\$33,000	\$33,000
HOL	CDM	Communications	Cost	\$27,335	\$27,335
Total Charged	HOL to CDM			\$189,242	\$180,570
HOL	Envari	Electricity Distribution Management	Cost	\$26,665	\$26,665
HOL	Envari	Communications	Cost	\$187,177	\$187,177
HOL	Envari	Facilities	Market/Cost	\$122,734	\$74,648
HOL	Envari	Finance	Cost	\$180,290	\$180,290
HOL	Envari	Fleet	Cost	\$11,731	\$11,731
HOL	Envari	Human Resources	Cost	\$217,439	\$217,439
HOL	Envari	Information Technology	Cost	\$571,566	\$571,566
HOL	Envari	Key Accounts	Cost	\$60,747	\$60,747
HOL	Envari	Legal	Cost	\$22,754	\$22,754
HOL	Envari	Regulatory	Cost	\$102,964	\$102,964
HOL	Envari	Data Services	Cost	\$58,560	\$58,560
Total Charged	HOL to Envari			\$1,562,627	\$1,514,541

^{*} Meter Data Services costs related to Energy Ottawa are considered immaterial and not practicable to determine

Corporate Cost Allocation

Name	of Company			% of Corporate		
		Service Offered	Pricing Methodology	Costs Allocated	Amount Allocated	
From	То			%	\$	
НОНІ	HOL	Management Services	Cost	50%	\$684,969	
НОНІ	HOL	Finance, Internal Audit & Enterprise Risk Mgt	Cost	57%	\$1,148,327	
HOHI	HOL	Human Resources	Cost	80%	\$550,297	
HOHI	HOL	Treasury	Cost	66%	\$91,705	
HOHI	HOL	Corporate Communications	Cost	57%	\$746,473	
HOHI	HOL	Legal, Corporate Admin	Cost	20%	\$179,766	
HOHI	HOL	Information Management & Technology	Cost	45%	\$321,179	
Total Charged from	HOHI to HOL				\$3,722,716	
НОНІ	CDM	Management Services	Cost	3%	\$45,898	
Total Charged from	HOHI to CDM				\$45,898	

Note:

1 This appendix must be completed in relation to each service provided or received for the Historical (actuals), Bridge and Test years. The required information includes:

Type of Service:

Services such as billing, accounting, payroll, etc. The applicant must identify any costs related to the Board of Directors of the parent company that are allocated to the applicant.

Pricing Methodology:

Pricing Methodology includes approaches such as cost-base, market-base, tendering, etc. The applicant must provide evidence demonstrating the pricing methodology used. The applicant must also provide a description of why that pricing methodology was chosen, whether or not it is in conformity with ARC, and why it is appropriate.

· % Allocation:



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UPDATED OPERATIONS, MAINTENANCE AND ADMINISTRATION SUMMARY

2

1

3 1. INTRODUCTION

- 4 This Schedule provides an overview of Hydro Ottawa's total operating expenses, in the contexts 5 of both the 2016-2020 and 2021-2025 rate periods. These expenses include Operations,
- $_{\rm 6}$ Maintenance and Administration ("OM&A") expenditures, Property Taxes, Depreciation and
- 7 Amortization expenses, and Payments in Lieu of Taxes ("PILS"). Detailed information with
- 8 respect to each of these operating expenses is available in **UPDATED** Exhibit 4-1-3:
- 9 Operations, Maintenance and Administration Program Costs, UPDATED Exhibit 4-1-4:
- 10 Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis,
- 11 UPDATED Exhibit 4-3-1: Depreciation, Amortization Disposal, and UPDATED Exhibit: 4-4-1:
- 12 Payments in Lieu of Taxes.

13

- 14 Please note that throughout this evidence, unless it is explicitly stated otherwise, OM&A is
- 15 **inclusive** of property taxes.

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17 Table 1 summarizes Hydro Ottawa's total operating expenses for the 2021-2025 period.



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Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 1 Schedule 1 **UPDATED** May 5, 2020 Page 2 of 7

Table 1 – AS ORIGINALLY SUBMITTED – 2021-2025 Total Operating Expenses (\$'000,000s)

	2021	2022	2023	2024	2025
OM&A excluding Property Tax	\$90.8	\$93.1	\$95.4	\$97.8	\$100.2
Property Tax	\$3.1	\$3.2	\$3.3	\$3.4	\$3.5
OM&A including Property Tax	\$93.9	\$96.3	\$98.7	\$101.2	\$103.7
Depreciation	\$52.5	\$56.9	\$59.1	\$60.7	\$64.0
PILS	\$1.0	\$5.2	\$8.8	\$11.8	\$7.8
TOTAL ¹	\$147.5	\$158.4	\$166.6	\$173.7	\$175.5

Table 1 – UPDATED FOR 2019 ACTUALS – 2021-2025 Total Operating Expenses (\$'000,000s)

	2021	2022	2023	2024	2025
OM&A excluding Property Tax	\$90.8	\$93.1	\$95.4	\$97.8	\$100.2
Property Tax	\$3.1	\$3.2	\$3.3	\$3.4	\$3.5
OM&A including Property Tax	\$93.9	\$96.3	\$98.7	\$101.2	\$103.7
Depreciation	\$52.5	\$56.9	\$59.1	\$60.7	\$64.0
PILS	\$2.2	\$3.9	\$8.6	\$11.5	\$7.6
TOTAL ²	\$148.6	\$157.1	\$166.4	\$173.4	\$175.3

7 **2. OM&A SUMMARY**

8 2.1 **OVERVIEW**

9 Hydro Ottawa's forecasted OM&A expenses include costs that are incurred to continue

10 providing a safe and reliable electricity distribution system, meeting legislative and regulatory

11 compliance requirements, and satisfying other operational and maintenance needs.

13 During the 2016-2020 period, Hydro Ottawa completed key OM&A-related projects and

14 programs, such as operating and maintaining overhead and underground distribution lines,

15 feeders, transformers, and distribution stations. The utility also incurred operations and

¹⁶ Totals may not sum due to rounding.

¹⁷ Totals may not sum due to rounding.



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- 1 maintenance costs for programs designed to invest in proactive measures to avoid long-term
- 2 OM&A and capital costs. Examples of such programs include vegetation management and
- 3 asset maintenance.

4

- 5 Key projects and programs in the 2021-2025 period include distribution maintenance and
- 6 operations programs, such as vegetation management, underground locates, information
- 7 technology ("IT") maintenance, contact centre and billing activities, stations maintenance, and
- 8 meter operations and testing activities.

- 10 Figure 1 below summarizes Hydro Ottawa's OM&A expenses over both rate periods (2016-2020
- 11 is displayed in blue; 2021-2025, in orange).



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Figure 1 – AS ORIGINALLY SUBMITTED – 2016-2025 OM&A Expenses (\$'000,000s)

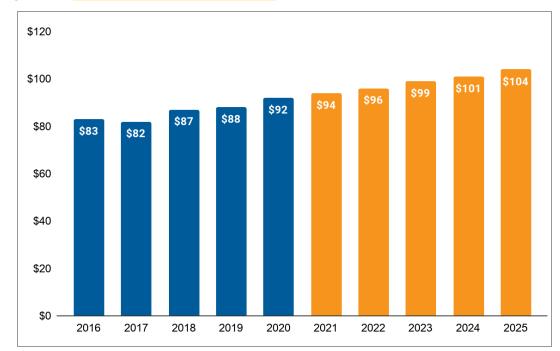
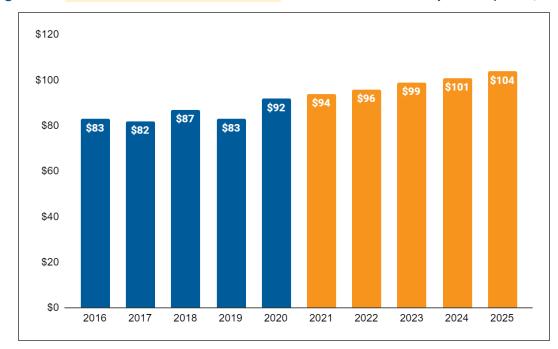


Figure 1 – **UPDATED FOR 2019 ACTUALS** – 2016-2025 OM&A Expenses (\$'000,000s)



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1 2.2 OM&A COST DRIVERS

2 Key cost drivers for OM&A are as follows:

3

4 Proactive and Reactive Distribution System Maintenance

- 5 This includes power outage restoration work due to storms, vegetation management (e.g. tree
- 6 trimming for purposes of storm hardening), underground cable locates, distribution system
- 7 inspections, and clean-up of sites contaminated by leaks/spills.

8

Employees, Equipment, and Facilities

- 10 Hydro Ottawa relies upon a skilled and experienced workforce that is equipped with the tools
- 11 necessary to perform its work safely and efficiently. Ongoing employee training is required as
- 12 the workforce is renewed due to retirements. This ensures that employees continue to work
- 13 safely and keep pace with the new skill sets associated with a more sophisticated distribution
- 14 system and evolving business landscape.

15

16 IT & Operational Technology Systems and Communications

- 17 Many of the utility's IT and operational technology systems require ongoing support,
- 18 maintenance, and protection, including for purposes of cyber security. Examples of such
- 19 systems include the Supervisory Control and Data Acquisition System, Geographic Information
- 20 System, Customer Care and Billing System, Outage Management System, Enterprise Resource
- 21 Planning ("ERP") system, and Human Capital Management ("HCM") system. The needs and
- 22 costs associated with software licensing are also increasing.

23

- 24 For additional details on OM&A cost drivers, please see **UPDATED** Exhibit 4-1-4: Operations,
- 25 Maintenance and Administration Cost Drivers and Program Variance Analysis.

26

27 2.3 PRODUCTIVITY INITIATIVES & SAVINGS

- 28 Some of the key productivity improvements undertaken by Hydro Ottawa during its 2016-2020
- 29 rate term include the launch of an upgraded ERP system and new HCM system, migration to a



Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 1 Schedule 1 **UPDATED** May 5, 2020 Page 6 of 7

1 new customer contact centre service provider, and implementation of a Mobile Workforce

2 Management tool. Further details on these and other such initiatives are provided in Exhibit

3 1-1-13: Productivity and Continuous Improvement Initiatives.

4

5 With respect to Hydro Ottawa staffing levels (as submitted in the utility's original Application),

6 these are set to decrease in 2021 from 2019 levels (see Attachment 4-1-5(C): OEB Appendix

7 2-K - Employee Costs). After accounting for 2019 actuals, Hydro Ottawa staffing levels are set

to increase in 2021 from 2019 levels (see UPDATED Attachment 4-1-5(C): OEB Appendix 2-K -

Employee Costs). Ongoing and expected productivity improvements mean that the utility will be

10 able to accomplish more while ensuring overall headcount remains stable and associated

compensation costs are controlled. In addition, it should likewise be noted that Hydro Ottawa is

12 currently serving more customers than it was in 2015, with the customer base having increased

13 by almost 5%, as of the end of 2019.³

14

15 During the internal budgeting process at Hydro Ottawa for the 2021-2025 period, the initial

levels of OM&A expenditures proposed by the various Divisions within the utility translated into

an overall OM&A Compound Annual Growth Rate ("CAGR") of 3.5%.4 This growth was

attributable to increases in program activities, salaries and benefit costs, fuel costs, and market

priced contracts.

20

The proposed 2021-2025 OM&A spending levels were reviewed by the Executive Management

Team and several adjustments/reductions were made to the proposals. One significant

modification was that inflationary adjustments were not applied to programs where inflationary

growth was not already explicitly included (e.g. wages set through the collective bargaining

process). As a result, Hydro Ottawa will manage these programs and their associated costs to

26 2020 cost levels.

 $^{^{27}}$ 3 As of the end of 2015, Hydro Ottawa's total customer count was 323,919. This number increased to 339,771 as of

²⁸ the end of 2019. The addition of 15,852 customers during that timeframe is equivalent to approximately a 5%



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In addition, Hydro Ottawa applied a custom OM&A productivity escalator to its planned 2021 OM&A levels. The custom escalator applied was 2.51%.⁵ The application of this custom escalation factor resulted in a reduction to OM&A spending over the 2021-2025 rate term of approximately \$13.1M. These savings will be achieved in large part through productivity and continuous improvement initiatives, as described in Exhibit 1-1-13: Productivity and Continuous

6 Improvement Initiatives. Hydro Ottawa is committed to productivity and continuous

7 improvement, and is confident that it has proposed a reasonable target for OM&A productivity.

89 3. PROPERTY TAXES

10 Property taxes are paid to the City of Ottawa annually based on the value of its buildings and

11 substations and the associated municipal tax rates. For more information, please see

12 UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and

13 Program Variance Analysis.

14

5 4. DEPRECIATION AND AMORTIZATION EXPENSES

16 For more information regarding Hydro Ottawa's Depreciation and Amortization expenses,

please refer to UPDATED Exhibit 4-3-1: Depreciation, Amortization Disposal.

18

19 5. PAYMENTS IN LIEU OF TAXES

20 Pursuant to its obligations under Section 93 of the *Electricity Act, 1998*, Hydro Ottawa is liable

21 for the payment of PILS to the Ministry of Finance based on its taxable income. For more

22 information regarding PILS, please see **UPDATED** Exhibit 4-4-1: Payments in Lieu of Taxes.

²³ ⁵ For more information on this productivity escalator and how it was calculated, please see Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.



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UPDATED OPERATIONS, MAINTENANCE AND ADMINISTRATION PROGRAM

2 COSTS

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4 1. INTRODUCTION

This Schedule provides a brief qualitative and quantitative summary of Hydro Ottawa's operations, maintenance and administration ("OM&A") expenditures. It also includes a brief overview of the composition of Hydro Ottawa's OM&A costs, trends, and business environment changes. This Schedule further describes Hydro Ottawa's approach to OM&A planning, and the top-down and bottom-up budget process used to arrive at the utility's OM&A expenditures. The inclusion of information in this Schedule is informed by the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements").

13

14 2. OM&A SUMMARY

15 2.1. HYDRO OTTAWA'S APPROACH TO OM&A PLANNING AND BUDGETING

Hydro Ottawa's approach to OM&A planning and budgeting for the 2021-2025 period is guided by the utility's planning and performance management framework, which aligns corporate strategies with planning, operations, performance, and the drive for continuous improvement.



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Figure 1 – Hydro Ottawa's Integrated Planning & Performance Management Framework



- 3 The framework maintains that spending correspond to business priorities, be directed to achieve
- 4 performance targets, and support Hydro Ottawa's four key focus areas, as set out in its
- 5 2016-2020 Strategic Direction:

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- **Customer Value:** we will deliver value across the entire customer experience by providing reliable, responsive and innovative services at competitive rates.
- **Financial Strength:** we will create sustainable growth in our business and our earnings by improving productivity and pursuing business growth opportunities that leverage our strengths our core capabilities, our assets and our people.
- Organizational Effectiveness: we will achieve performance excellence by cultivating a culture of innovation and continuous improvement.
- **Corporate Citizenship:** we will contribute to the well-being of the community by acting at all times as a responsible and engaged corporate citizen.



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Hydro Ottawa's 2021 OM&A budget was developed as a Test Year rebasing budget and is based on the utility's forecast of expenditures, as developed in its budget process. It was guided by the objectives and constraints articulated in a 2020-2025 budget planning memorandum issued by the utility's Chief Financial Officer to members of the Executive Management Team. Among other things, this memorandum included constraints on headcount, compensation, and OM&A. Hydro Ottawa's 2021 OM&A budget was further informed by substantive operational investments needed to maintain service reliability and safety, as well as those necessary to remain in compliance with regulatory and legislative requirements. Finally, the OM&A budget was informed by the need to maximize productivity and minimize bill impacts, while ensuring the financial health and viability of the utility.

11

For the 2022-2025 Test Years, Hydro Ottawa will adjust OM&A using a Custom Price Escalation Factor ("CPEF") to align with the principles of incentive regulation, as enshrined in the Renewed Regulatory Framework ("RRF"). Detailed information on the specific configuration of the CPEF is outlined in UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework. Hydro Ottawa's approach to adjusting the OM&A component of rates by the CPEF formula will result in the utility bearing the risk associated with any shortfall between revenues collected through rates and regularly incurred costs. This difference will be recovered through productivity initiatives and operational efficiencies. Further details regarding planned initiatives for the 2021-2025 period are discussed in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives.

22

3 2.2. OM&A BUDGET PROCESS

Hydro Ottawa undertook both a top-down and bottom-up forecasting exercise to develop the 25 2021-2025 budget. The budget forecasting exercise began with the preparation and issuance of a planning memorandum from the Chief Financial Officer (see section 2.1 above) that provided top-down guidance on the areas of constraints which were to inform the individual corporate Divisions in the bottom-up development of their budgets. Examples of top-down constraints and

¹ Please see Attachment 1-1-9(A): Corporate Memorandum - 2020-2025 Priorities and Budget Guidelines.



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expectations included constraints on hiring, compensation, and benefits, as well as expectations for productivity and cost control activity. Bottom-up funding requests were then developed, evaluated, and scrutinized based on priority and alignment with core strategic objectives as well as ratepayer impacts. Adjustments were subsequently made to the OM&A budget to reflect these priorities and impacts. The final OM&A budget was developed to accommodate Hydro Ottawa's operational requirements to provide a safe and reliable distribution system, while respecting legislative and regulatory obligations, including the conditions set forth in the utility's OEB-approved license. The OM&A budget was included in the assessment of customer rate impacts that were reviewed by Hydro Ottawa's senior management team and Board of Directors.

11

As noted above, the OM&A budget for the 2022-2025 Test Years was subsequently adjusted by a CPEF formula, consistent with the OEB's model for incentive regulation. Recognizing that Hydro Ottawa cannot accurately predict all potential OM&A funding requirements that may emerge during the 2021-2025 Custom Incentive Rate- term, the utility may avail itself of the cost recovery mechanism available under a Z factor application. Hydro Ottawa will only resort to using the Z factor mechanism if costs incurred arise from unforeseen events, decisions, or activities, the results of which cannot be reasonably anticipated or quantified at this juncture and where the costs exceed Hydro Ottawa's materiality threshold and satisfy OEB criteria. Examples include unforeseen weather events or changes to laws or regulations requiring significant implementation investment.²

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3 2.3. OM&A TEST YEAR LEVELS

As established by the RRF, under a Price Cap IR rates are adjusted using a formulaic approach in the years following the first year base rates. This formula consists of a two component Price Cap Index ("PCI"): inflation and productivity. For electricity distributors, the formula includes an industry-specific inflation factor and two factors for productivity. One productivity factor is a fixed amount for industry-wide productivity, and the other is a stretch factor which is set each year

²⁹ Additional information on Hydro Ottawa's intended approach to Z factor applications is available in Exhibit 9-2-1:

³⁰ New Deferral and Variance Accounts.



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1 based on the level of productivity the distributor has achieved as evaluated by the Pacific

2 Economics Group ("PEG") econometric model.

3

4 Under a Custom Incentive Rate-Setting ("Custom IR") approach, the annual rate adjustment 5 must be based on a custom index supported by empirical evidence that can be tested. The 6 annual adjustment must include explicit financial incentives for continuous improvement and 7 cost control targets. As noted in the OEB's *Handbook for Utility Rate Applications*, "these 8 incentive elements, including a productivity factor, must be incorporated through a custom index 9 or an explicit revenue reduction over the term of the plan (not built into the cost forecast)."³

10

As a result, Hydro Ottawa is proposing to adopt a CPEF rate framework for years two through five, which is based on the approach approved by the OEB in Hydro Ottawa's 2016-2020 Custom IR application.⁴ This framework is aligned with OEB policy and based on sound ratemaking principles. The CPEF incorporates the OEB's key principles and expectations of a Custom IR application, and is structured in a way that:

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- Includes productivity gains as part of the rate adjustment mechanism;
- Constrains operational funding increases going forward at approximately the rate of inflation; and
- Acknowledges the necessary funding requirements to address Hydro Ottawa's significant, multi-year investment needs over the 2021-2025 period.

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- 23 The proposed OM&A costs for the Test Years were developed by escalating the 2021 Test Year
- 24 OM&A levels by a CPEF of 2.51% in the years 2022 through 2025. For more information on
- 25 how this escalation factor was developed, please see UPDATED Exhibit 1-1-10: Alignment with
- 26 the Renewed Regulatory Framework.

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²⁷ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 25.

²⁸ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).



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1 2.4. SUMMARY OF TOTAL OM&A EXPENDITURES

- 2 Hydro Ottawa's OM&A costs are significantly influenced by requirements to operate and
- 3 maintain a safe and reliable distribution grid, provide service levels that are satisfactory to
- 4 customers, and ensure continued compliance with all legislative and regulatory obligations.
- 5 Among other things, this entails a need for the utility to strategically manage its workforce in a
- 6 way that allows it to replace retiring workers with new tradespeople, and respond to the
- 7 changing dynamics of the market and operating environment in which it is tasked with the
- 8 distribution of electricity to customers.

- 10 Table 1 below provides a summary view of Hydro Ottawa's Historical, Bridge, and Test Year
- 11 OM&A expenditures and has been updated to incorporate 2019 actual results.



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Table 1 – AS ORIGINALLY SUBMITTED – OM&A Variances (\$'000s)

	Year	OM&A	Previous Year	Variance	Variance
	2016	\$82,621			
Historical	2017	\$82,245	\$82,621	\$(376)	(0.46)%
	2018	\$86,863	\$82,245	\$4,619	5.62%
Deider	2019	\$87,545	\$86,863	\$682	0.79%
Bridge	2020	\$91,990	\$87,545	\$4,445	5.08%
	2021	\$93,923	\$91,990	\$1,932	2.10%
	2022	\$96,280	\$93,923	\$2,357	2.51%
Test	2023	\$98,697	\$96,280	\$2,417	2.51%
	2024	\$101,174	\$98,697	\$2,477	2.51%
	2025	\$103,714	\$101,174	\$2,539	2.51%

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Table 1 – UPDATED FOR 2019 ACTUALS – OM&A Variances (\$'000s)

	Year	OM&A	Previous Year	Variance	Variance
	2016	\$82,621			
Historical	2017	\$82,245	\$82,621	\$(376)	(0.46)%
HIStorical	2018	\$86,863	\$82,245	\$4,619	5.62%
	2019	\$83,113	\$86,863	(\$3,750)	(4.32%)
Bridge	2020	\$91,990	\$83,113	\$8,878	10.68%
	2021	\$93,923	\$91,990	\$1,932	2.10%
	2022	\$96,280	\$93,923	\$2,357	2.51%
Test	2023	\$98,697	\$96,280	\$2,417	2.51%
	2024	\$101,174	\$98,697	\$2,477	2.51%
	2025	\$103,714	\$101,174	\$2,539	2.51%

- 5 With respect to OM&A expenditures in 2019, total expenditures were lower than forecasted by
- 6 \$4.4M and were below 2018 levels by \$3.8M. The 2019 actual to 2019 forecast variance is
- 7 explained by the following:



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- 1) Compensation was below forecast by \$2.5M due to reduced overtime, higher than anticipated position vacancies, and a variance in the WSIB Surcharge account (for which a rebate was received in 2019 due to improvement in claim status year-over-year).
- 2) Shared services provided by Hydro Ottawa Holding Inc. ("Holding Company") fell \$0.8M below the forecast. This decrease is largely explained by the utility's reduced share of the Holding Company's services, in the midst of continued expansion of the business activity of the utility's affiliates.
- 3) The remaining \$1.1M reduction was achieved by cost control and cost deferral. For example, an effort was made by the utility to mitigate cost increases in spills cleanup and overlapping ownership of facilities. In addition, the timing and pacing of OM&A expenditures resulted in cost deferral in certain instances. This was the case with select OM&A programs, for which the initiation of activities occurred later than the forecasted schedule as a result of contract renewal negotiations. Instead of 2019, some of these costs are expected to be incurred in 2020.

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16 2.5. SUMMARY OF OM&A COSTS BY MAJOR CATEGORY

17 UPDATED Attachment 4-1-3(A): OEB Appendix 2-JA - Summary of Recoverable OM&A Expenses provides a summary of recoverable OM&A expenses, as outlined below in Table 2. In addition, please see UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis for a description of high-level cost drivers and cost drivers by program.



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1 Table 2 – AS ORIGINALLY SUBMITTED – OM&A Costs by Major OM&A Category (\$'000s)

		Actual		Bric	lge	Test	
OM&A Category	2016	2017	2018	2019	2020	2021	CAGR⁵
Operations	\$18,399	\$18,860	\$20,877	\$22,398	\$23,824	\$22,924	4.5%
Maintenance	\$9,739	\$10,299	\$9,125	\$8,653	\$9,767	\$9,855	0.2%
Subtotal	\$28,138	\$29,158	\$30,003	\$31,050	\$33,591	\$32,779	3.1%
Billing and Collecting	\$12,594	\$12,745	\$11,941	\$10,220	\$12,052	\$12,711	0.2%
Community Relations	\$5,290	\$5,120	\$4,759	\$5,131	\$5,895	\$6,365	3.8%
Subtotal	\$17,884	\$17,865	\$16,700	\$15.352	\$17,946	\$19,076	1.3%
Administrative and General	\$36,599	\$35,222	\$40,161	\$41,143	\$40,453	\$42,068	2.8%
Total OM&A Expenses ⁶⁷	\$82,621	\$82,245	\$86,863	\$87,545	\$91,990	\$93,923	2.6%

Table 2 – UPDATED FOR 2019 ACTUALS – OM&A Costs by Major OM&A Category

4 (\$'000s)

		Act	ual		Bridge	Test	
OM&A Category	2016	2017	2018	2019	2020	2021	CAGR ⁸
Operations	\$18,399	\$18,860	\$20,877	\$20,863	\$23,824	\$22,924	4.5%
Maintenance	\$9,739	\$10,299	\$9,125	\$7,693	\$9,767	\$9,855	0.2%
Subtotal	\$28,138	\$29,158	\$30,003	\$28,556	\$33,591	\$32,779	3.1%
Billing and Collecting	\$12,594	\$12,745	\$11,941	\$10,873	\$12,052	\$12,711	0.2%
Community Relations	\$5,290	\$5,120	\$4,759	\$4,796	\$5,895	\$6,365	3.8%
Subtotal	\$17,884	\$17,865	\$16,700	\$15,670	\$17,946	\$19,076	1.3%
Administrative and General	\$36,599	\$35,222	\$40,161	\$38,887	\$40,453	\$42,068	2.8%
Total OM&A Expenses ⁹¹⁰	\$82,621	\$82,245	\$86,863	\$83,113	\$91,990	\$93,923	2.6%

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⁶ ⁵ CAGR represents the compound annual growth rate between 2016 and 2021.

⁷ Totals may not sum due to rounding.

In the 2019 forecast included in the original Application,
 \$3.7M in OM&A costs were reclassified to USofA Account
 4330, in relation to Shared Services (please see Appendix 2-N).

^{10 8} CAGR represents the compound annual growth rate between 2016 and 2021.

¹¹ Totals may not sum due to rounding.

¹² In 2019, \$3.2M in OM&A costs were reclassified to USofA Account 4330, in relation to Shared Services. Please

¹³ see UPDATED Attachment 3-2-1(B): OEB Appendix 2-N - 2016-2020 Shared Services and Corporate Cost

¹⁴ Allocation.



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1 Over the period of 2016-2021, overall OM&A expenses are set to experience a 2.6% increase

2 (using a compound annual growth rate). This is attributable to Hydro Ottawa's strong

3 commitment to productivity, continuous improvement, and cost control. The overall increase is

4 largely explained by increases in labour costs, as per Collective Agreements, as well as the

5 increased demand in distribution maintenance and technology. These increases are partially

6 offset by savings associated with productivity initiatives and cost control.

7

8 2.5.1. Operations and Maintenance Costs

- 9 Operations and maintenance are expected to increase by a compound annual growth rate of
- 10 3.1% over the course of 2016-2021. The increase to operations and maintenance-related costs
- 11 is partly attributable to increased costs associated with labour, and maintenance expenses
- 12 associated with operating and maintaining overhead and underground distribution lines,
- 13 feeders, transformers, and distribution stations. The principal cost drivers of the increases are
- 14 as follows:

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- Higher volume of Preventative and Predictive Overhead, Underground Line, and Station Maintenance costs;
- Increase in Corrective Maintenance and Emergency Response costs;
 - Increase in System Operations costs;
- Technology costs, such as Supervisory Control and Data Acquisition ("SCADA"),
 Geographic Information System ("GIS"), and Asset Management software; and
- Increased labour and fleet costs.

- 24 The foregoing cost increases are mitigated by savings achieved through several productivity
- 25 initiatives, the largest one being a dark fibre lease. Once this lease is completely terminated in
- 26 2022, annual OM&A savings of \$1.1M are expected to accrue. The construction of Hydro
- 27 Ottawa's own dark fibre network is moving forward as part of the Telecom Master Plan included
- 28 in the utility's approved 2016-2020 Custom IR application. Construction of dark fibre is set to
- 29 strengthen overall grid reliability, while simultaneously reducing OM&A costs.





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1 2.5.2. Billing and Collections & Community Relations

2 Billing, Collections, and Community Relations costs increased by a compound annual growth rate of 1.3% from 2016 through 2021. Billing and collections expenses relate to costs associated with enabling customer billing services, conducting collections activities, and maintaining the billing system (including for purposes of satisfying new regulatory requirements). The principal cost drivers of the increases are the following:

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- Increase in postage rates;
- Increase in technology costs to ensure Hydro Ottawa's Customer Care & Billing system
 is complying with all new regulatory requirements (e.g. amendments to the OEB's
 Customer Service Rules and annual Disconnection Moratoriums); and
- Increase in technology costs to enhance customer experience. For example, customers are now communicating with Hydro Ottawa through numerous channels including voice, text, email, and web chat.¹¹

15

The foregoing cost increases were successfully offset by many cost control initiatives, including e-billing and automation. Hydro Ottawa maintains the highest e-billing participation rate of any distributor in Ontario (48% of customers), with an estimated corresponding cost avoidance of \$1.6M per year.

20

21 **2.5.3.** Administrative and General

- 22 From 2016 to 2021, Administrative and General costs increased by a compound annual growth
- 23 rate of 2.8%. Administrative costs generally reflect salary expenses, as well as costs associated
- 24 with Human Resources ("HR"), Information Technology ("IT"), Finance, Regulatory, Facilities,
- 25 Supply Chain, Warehouse, Legal, Communications, and Occupational Health, Safety and
- 26 Environment. The principal cost drivers of the increases are as follows:

2728

Compensation and benefits costs;

 ²⁹ ¹¹ For further information on Hydro Ottawa's enhanced customer communications and resulting increases in customer
 ³⁰ satisfaction, please see Attachment 1-2-1(B): Customer Strategy.



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- Higher demand for technological support (e.g. IT security, IT subscription, and system support) to meet higher customer expectations and diverse business and operational needs; and
 - Higher customer demand for communications from and with Hydro Ottawa, especially during outages and severe weather events.

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7 2.6. INFLATION RATES AND FINANCIAL ASSUMPTIONS

8 Hydro Ottawa has assumed an inflation rate of 2.01% for 2021, for all non-compensation related 9 costs. 12

10

11 2.7. OVERVIEW OF OM&A PROGRAMS & EXPENDITURES

- 12 A full quantitative description and variance of Hydro Ottawa's program costs is available in
- 13 UPDATED Attachment 4-1-3(B): OEB Appendix 2-JC OM&A Programs Table. A qualitative
- 14 description of the utility's OM&A programs and an analysis of cost drivers can be found in
- 15 **UPDATED** Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and
- 16 Program Variance Analysis.

17

8 3. OM&A COST PER CUSTOMER AND PER FTE

- 19 UPDATED Attachment 4-1-3(C): OEB Appendix 2-L Recoverable OM&A Cost per Customer
- 20 and per Full Time Equivalent summarizes Hydro Ottawa's OM&A expenditures over the
- 21 Historical, Bridge, and 2021 Test Years, expressed on a per customer and per Full Time
- 22 Equivalent ("FTE") employee basis. The compounded growth rate in OM&A costs per customer
- 23 is 1.4% and per FTE is 2.3% over the 2016-2021 period.

²⁴ Conference Board of Canada, *Consumer Price Index - Canada* (October 2019).

TO BE UPDATED AT THE DRAFT RATE ORDER STAGE

UPDATED - Appendix 2-JA

Summary of Recoverable OM&A Expenses

			2016		2017	2017 2018		2019		2020	2021
	2016 Last Rebasing Year OEB Approved	- 1	2016 Last Rebasing Year Actuals		017 Actuals	als 2018 Actuals		2019 Actuals		2020 Bridge Year	2021 Test Year
Reporting Basis	MIFRS		MIFRS		MIFRS		MIFRS	MIFRS		MIFRS	MIFRS
Operations		\$	18,398,554	\$	18,859,756	\$	20,877,170	\$	20,863,261	\$ 23,824,185	\$ 22,923,625
Maintenance		\$	9,739,324	\$	10,298,658	\$	9,125,316	\$	7,692,891	\$ 9,766,516	\$ 9,855,230
SubTotal	\$ -	\$	28,137,878	\$	29,158,414	\$	30,002,486	\$	28,556,152	\$ 33,590,701	\$ 32,778,855
%Change (year over year)					3.6%		2.9%		-4.8%	17.6%	-2.4%
%Change (Test Year vs Last Rebasing Year - Actual)											
Billing and Collecting		\$	12,593,747	\$	12,744,913	\$	11,940,913	\$	10,873,479	\$ 12,051,515	\$ 12,711,160
Community Relations		\$	5,290,093	\$	5,119,660	\$	4,758,993	\$	4,796,400	\$ 5,894,923	\$ 6,365,075
Administrative and General		\$	36,599,477	\$	35,221,846	\$	40,160,945	\$	38,886,829	\$ 40,453,281	\$ 42,067,566
SubTotal	\$ -	\$	54,483,317	\$	53,086,419	\$	56,860,851	\$	54,556,708	\$ 58,399,719	\$ 61,143,801
%Change (year over year)					-2.6%		7.1%		-4.1%	7.0%	4.7%
%Change (Test Year vs Last Rebasing Year - Actual)											
Total	\$ 83,105,563	\$	82,621,195	\$	82,244,833	\$	86,863,337	\$	83,112,860	\$ 91,990,420	\$ 93,922,656
%Change (year over year)					-0.5%		5.6%		-4.3%	10.7%	2.1%

Note:

- 1 Historical actuals going back to the last cost of service application are required to be entered by the applicant.
- 2 Recoverable OM&A that is included on these tables should be identical to the recoverable OM&A that is shown for the corresponding periods on Appendix 2-JB.

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 1 Schedule 3 Attachment A UPDATED May 5, 2020 Page 2 of 2

	2016			2017	2018	2019	2020		2021		
	Last Rebasing Year 2016 OEB Approved	Last Rebasing Year 2016 Actuals	Variance 2016 OEB Approved - 2016 Actuals	2017 Actuals	2018 Actuals	2019 Actuals	2020 Bridge Year	Variance 2020 Bridge vs. 2019 Actuals	2021 Test Year	Variance 2021 Test vs. 2020 Bridge	
Operations		\$ 18,398,554	-\$ 18,398,554	\$ 18,859,756	\$ 20,877,170	\$ 20,863,261	\$ 23,824,185	\$ 2,960,924	\$ 22,923,625	-\$ 900,560	
Maintenance		\$ 9,739,324	-\$ 9,739,324	\$ 10,298,658	\$ 9,125,316	\$ 7,692,891	\$ 9,766,516	\$ 2,073,625	\$ 9,855,230	\$ 88,714	
Billing and Collecting		\$ 12,593,747	-\$ 12,593,747	\$ 12,744,913	\$ 11,940,913	\$ 10,873,479	\$ 12,051,515	\$ 1,178,036	\$ 12,711,160	\$ 659,645	
Community Relations		\$ 5,290,093	-\$ 5,290,093	\$ 5,119,660	\$ 4,758,993	\$ 4,796,400	\$ 5,894,923	\$ 1,098,523	\$ 6,365,075	\$ 470,152	
Administrative and General		\$ 36,599,477	-\$ 36,599,477	\$ 35,221,846	\$ 40,160,945	\$ 38,886,829	\$ 40,453,281	\$ 1,566,452	\$ 42,067,566	\$ 1,614,285	
Total OM&A Expenses	\$ 83,105,563	\$ 82,621,195	\$ 484,368	\$ 82,244,833	\$ 86,863,337	\$ 83,112,860	\$ 91,990,420	\$ 8,877,560	\$ 93,922,656	\$ 1,932,236	
Adjustments for Total non- recoverable items (from Appendices 2-JA and 2-JB)											
Total Recoverable OM&A Expenses	\$ 83,105,563	\$ 82,621,195	\$ 484,368	\$ 82,244,833	\$ 86,863,337	\$ 83,112,860	\$ 91,990,420	\$ 8,877,560	\$ 93,922,656	\$ 1,932,236	
Variance from previous year				-\$ 376,362	\$ 4,618,504	-\$ 3,750,477	\$ 8,877,560		\$ 1,932,236		
Percent change (year over year)				0.0%	5.6%	-4.3%	10.7%]	2.1%		
Percent Change: Test year vs. Most Current Actual									13.01%		
Simple average of % variance for all years									3.52%		
Compound Annual Growth Rate for all years										2.6%	
Compound Growth Rate (2019 vs. 2016 Actuals)									0.2%		

	2016 Last Rebasing Year OEB Approved	2016 Last Rebasing Year Actuals		2018 Actuals	2019 Actuals	2020 Bridge Year	2021 Test Year	
Operations		\$ 18,398,554	[\$ 20,877,170	\$ 20,863,261	\$ 23,824,185	\$ 22,923,625	
Maintenance		\$ 9,739,324	[\$ 9,125,316	\$ 7,692,891	\$ 9,766,516	\$ 9,855,230	
Billing and Collecting		\$ 12,593,747	[\$ 11,940,913	\$ 10,873,479	\$ 12,051,515	\$ 12,711,160	
Community Relations		\$ 5,290,093	[\$ 4,758,993	\$ 4,796,400	\$ 5,894,923	\$ 6,365,075	
Administrative and General		\$ 36,599,477	[\$ 40,160,945	\$ 38,886,829	\$ 40,453,281	\$ 42,067,566	
Total	\$ 83,105,563	\$ 82,621,195	[\$ 86,863,337	\$ 83,112,860	\$ 91,990,420	\$ 93,922,656	
%Change (year over year)		-0.6%		5.1%	-4.3%	10.7%	2.1%	

UPDATED - Appendix 2-JC OM&A Programs Table

Programs	Last Rebasing Year (2016 OEB- Approved)	Last Rebasing Year (2016 Actuals)	2017 Actuals	2018 Actuals	2019 Actuals	2020 Bridge Year	2021 Test Year	Variance (Test Year vs. 2019 Bridge Year)	Variance (Test Year vs. Last Rebasing Year (2016
Reporting Basis		MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Distribution Operations		17 754 201	10 005 205	10 211 622	10 154 464	20 202 254	21 457 611	2 202 147	21 457 611
Sub-Total	0	17,754,301 17,754,301	18,885,205 18,885,205	19,311,623 19,311,623	18,154,464 18,154,464	20,382,354	21,457,611	3,303,147 3,303,147	21,457,611 21,457,611
- Cub Total		17,704,001	10,000,200	10,011,020	10,104,404	20,002,004	21,407,011	0,000,147	21,407,011
Engineering & Design									
		6,872,207	6,878,698	7,540,783	6,859,518	8,745,847	8,565,907	1,706,389	8,565,907
Sub-Total	0	6,872,207	6,878,698	7,540,783	6,859,518	8,745,847	8,565,907	1,706,389	8,565,907
Customer Billing									
Oustonier Binning		9,479,737	8,935,559	8,866,310	8,488,516	8,634,341	9,192,696	704,180	9,192,696
Sub-Total	0		8,935,559	8,866,310	8,488,516	8,634,341	9,192,696	704,180	9,192,696
Customer & Community Relations									
		7,191,429	7,290,667	7,010,829	6,477,554	7,892,865	8,459,107	1,981,553	8,459,107
Sub-Total	0	7,191,429	7,290,667	7,010,829	6,477,554	7,892,865	8,459,107	1,981,553	8,459,107
Collections, Accounts & Activities									
Concuent, Accounts & Activities		3,120,713	3,775,127	2,882,389	2,231,581	3,278,626	3,377,588	1,146,007	3,377,588
Sub-Total	0		3,775,127	2,882,389	2,231,581	3,278,626	3,377,588	1,146,007	3,377,588
Facilities									
		6,652,188	6,441,641	7,123,923	9,912,474	7,338,521	7,475,608	-2,436,866	7,475,608
Sub-Total	0	6,652,188	6,441,641	7,123,923	9,912,474	7,338,521	7,475,608	-2,436,866	7,475,608
Finance									
T mance		3,917,774	3,847,245	3,963,955	3,298,985	3,340,269	3,416,978	117,993	3,416,978
Sub-Total	0		3,847,245	3,963,955	3,298,985	3,340,269	3,416,978	117,993	3,416,978
Human Resources & Training									
		4,118,272	3,826,980	4,053,590	3,287,343	3,795,303	3,890,319	602,976	3,890,319
Sub-Total	0	4,118,272	3,826,980	4,053,590	3,287,343	3,795,303	3,890,319	602,976	3,890,319
Information Mgt & Technology									
Information wgt & reciniology		7,651,842	8,261,849	10,692,063	9,827,813	11,952,687	10,084,556	256,743	10,084,556
Sub-Total	0		8,261,849	10,692,063	9,827,813	11,952,687	10,084,556	256,743	10,084,556
	-	1,000,000	5,251,515	,	2,021,010	,			,
Metering									
		2,265,665	2,477,790	2,200,471	2,018,543	2,585,701	2,611,952	593,409	2,611,952
Sub-Total	0	2,265,665	2,477,790	2,200,471	2,018,543	2,585,701	2,611,952	593,409	2,611,952
Regulatory Affairs									
Trogulatory Allans		2,023,857	2,037,050	2,157,111	2,019,155	2,248,403	2,985,742	966.587	2,985,742
Sub-Total	0		2,037,050	2,157,111	2,019,155	2,248,403	2,985,742	966,587	2,985,742
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,					, , , , , , , , , , , , , , , , ,	,,,,,
Safety, Environment & Bus									
Continuity		2,045,255	2,261,796	3,422,633	4,207,164	3,662,418	3,719,278	-487,886	3,719,278
Sub-Total	0		2,261,796	3,422,633	4,207,164	3,662,418	3,719,278	-487,886	
	l	2,040,200	2,201,790	5, 722,000	.,_0,,104	5,502,710	5,. 10,270	407,300	5,710,270
Supply Chain									
		1,244,105	1,470,594	1,252,299	1,288,547	1,062,107	1,059,855	-228,692	1,059,855
Sub-Total	0	1,244,105	1,470,594	1,252,299	1,288,547	1,062,107	1,059,855	-228,692	1,059,855
Comparate Conta									
Corporate Costs		8,283,850	5 954 694	6 305 350	5,041,203	7 070 070	7 605 464	2,584,258	7 625 464
Sub-Total	0		5,854,631 5,854,631	6,385,358 6,385,358	5,041,203	7,070,979 7,070,979	7,625,461 7,625,461	2,584,258	· · · · · ·
Total		0,203,030	5,054,031	0,000,000	5,041,203	1,010,919	1,020,401	2,304,236	1,023,401
Miscellaneous								0	0
Total	83,105,563	82,621,195	82,244,832	86,863,337	83,112,860	91,990,421	93,922,658	10,809,798	10,817,095

Notes:

¹ Please provide a breakdown of the major components of each OM&A Program undertaken in each year. Please ensure that all Programs below the materiality threshold are included in the miscellaneous line. Add more Programs as required.

² The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the OM&A budget in the miscellaneous category

Hydro Ottawa Limited
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Exhibit 4
Tab 1
Schedule 3
Attachment C
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UPDATED - Appendix 2-L Recoverable OM&A Cost per Customer and per FTE 1

	Last Rebasing Year 2016 - OEB Approved	Last Rebasing Year 2016 - Actual*		2017 Actuals*		2018 Actuals*		2019 Actuals		2020 Bridge Year		2021 Test Year	
Reporting Basis	MIFRS		MIFRS		MIFRS		MIFRS		MIFRS		MIFRS		MIFRS
OM&A Costs	\$ 83,105,563	\$	82,621,195	\$	82,244,832	\$	86,863,337	\$	83,112,860	\$	91,990,421	\$	93,922,658
O&M		\$	28,137,878	\$	29,158,414	\$	30,002,486	\$	28,556,152	\$	33,590,701	\$	32,778,855
Admin Expenses		\$	54,483,317	\$	53,086,419	\$	56,860,851	\$	54,556,708	\$	58,399,719	\$	61,143,801
Total Recoverable OM&A from Appendix 2-JB 5	\$ 83,105,563	\$	82,621,195	\$	82,244,833	\$	86,863,337	\$	83,112,860	\$	91,990,420	\$	93,922,656
Number of Customers 2,4	327,260		325,915		329,927		333,620		339,771		341,559		344,936
Number of FTEs 3,4	623		611		612		605		611		623		616
Customers/FTEs	526		533		539		552		556		549		560
OM&A cost per customer													
O&M per customer	\$0		\$86		\$88		\$90		\$84		\$98		\$95
Admin per customer	\$0		\$167		\$161		\$170		\$161		\$171		\$177
Total OM&A per customer	\$254		\$254		\$249		\$260		\$245		\$269		\$272
OM&A cost per FTE													
O&M per FTE	\$0		\$46,045		\$47,668		\$49,615		\$46,760		\$53,961		\$53,247
Admin per FTE	\$0		\$89,156		\$86,785		\$94,032		\$89,335		\$93,815		\$99,324
Total OM&A per FTE	\$133,460		\$135,201		\$134,453		\$143,647		\$136,094		\$147,776		\$152,571

Notes:

- If it has been more than four years since the applicant last filed a cost of service application, additional years of historical actuals should be incorporated into the table, as necessary, to go back to the last cost of service application. If the applicant last filed a cost of service application less than four years ago, a minimum of three years of actual information is required.
- 2 The method of calculating the number of customers must be identified. Should correspond with data provided in Appendix 2-IB.
- 3 The method of calculating the number of FTEs must be identified. See also Appendix 2-K.
- 4 The number of customers and the number of FTEs should correspond to mid-year or average of January 1 and December 31 figures.
- For the test year, the applicant should take into account the system O&M (line 22 of Appendix 2-AB) in developing its forecasted OM&A.

^{*} As outlined in UPDATED Attachment 4-1-5(A) - Employee Compensation Strategy, revisions have been made to 2016, 2017 and 2018 Number of FTEs due to a systemic error in spreadsheet templates.

UPDATED - Appendix 2-D Overhead Expense

Applicants are to provide a breakdown of OM&A before capitalization in the below table. OM&A before capitalization may be broken down by cost center, program, drivers or another format best suited to focus on capitalized vs. uncapitalized OM&A.

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 1 Schedule 3 Attachment D UPDATED May 5, 2020 Page 1 of 1

OM&A Before Capitalization	2017 Historical Year		2018 Historical Year		2019 Historical Year		2020 Bridge Year		2021 Test Year
Distribution Operations	\$	42,072,595	\$	42,985,534	\$	40,399,152	\$	44,455,558	\$ 45,958,946
Engineering & Design	\$	12,437,569	\$	13,398,062	\$	12,507,395	\$	13,977,990	\$ 14,167,879
Customer Billing	\$	8,936,703	\$	8,912,271	\$	9,120,268	\$	9,274,258	\$ 9,619,556
Customer & Community Relations	\$	7,300,361	\$	7,010,829	\$	6,477,554	\$	8,003,925	\$ 8,617,580
Collections, Acct & Activities	\$	3,781,614	\$	2,948,863	\$	2,371,317	\$	3,278,626	\$ 3,377,588
Facilities	\$	6,443,441	\$	7,127,723	\$	9,919,789	\$	7,338,521	\$ 7,475,608
Finance	\$	3,847,245	\$	3,963,955	\$	3,303,451	\$	3,340,269	\$ 3,441,938
Human Resources & Training	\$	3,889,418	\$	4,056,098	\$	3,316,757	\$	3,853,861	\$ 3,939,877
Information Mgt & Technology	\$	10,722,068	\$	10,884,225	\$	10,101,028	\$	11,952,687	\$ 10,310,302
Metering	\$	2,856,917	\$	2,621,587	\$	2,454,821	\$	2,967,981	\$ 3,074,131
Regulatory Affairs	\$	2,037,050	\$	2,157,111	\$	2,019,155	\$	2,248,403	\$ 2,998,222
Safety, Environment & Bus Cont	\$	2,261,796	\$	3,434,261	\$	4,228,570	\$	3,662,418	\$ 3,719,278
Supply Chain Corporate Costs	\$	2,632,039 5,854,631	\$	2,465,807 6,385,206	\$	2,489,293 5,041,203	\$	2,267,583 7,070,979	\$ 2,321,330 7,625,461
Total OM&A Before Capitalization (B)	\$	115,073,447	\$	118,351,532	\$	113,749,753	\$	123,693,059	\$ 126,647,696

Applicants are to provide a breakdown of capitalized OM&A in the below table. Capitalized OM&A may be broken down using the categories listed in the table below if possible. Otherwise, applicants are to provide its own break down of capitalized OM&A.

Capitalized OM&A	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	Directly Attributable? (Yes/No)	Explanation for Change in Overhead Capitalized
Supply Chain	\$ 1,160,695	\$ 1,213,508	\$ 1,200,746	\$ 1,205,476	\$ 1,231,474	Yes	-
Supervision	\$ 2,365,426	\$ 2,539,391	\$ 2,315,815	\$ 2,287,211	\$ 2,530,939	Yes	
Engineering	\$ 3,020,405	\$ 3,235,342	\$ 3,153,225	\$ 2,910,979	\$ 3,184,311	Yes	
Fleet	\$ 2,954,501	\$ 3,101,160	\$ 3,010,871	\$ 3,333,470	\$ 3,317,225	Yes	
Labour	\$ 23,327,587	\$ 21,398,793	\$ 20,956,236	\$ 21,965,502	\$ 22,461,088	Yes	
Total Capitalized OM&A (A)	\$ 32,828,614	\$ 31,488,194	\$ 30,636,893	\$ 31,702,638	\$ 32,725,037		
% of Capitalized OM&A (=A/B)	29%	27%	27%	26%	26%	Ī	



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UPDATED OPERATIONS, MAINTENANCE AND ADMINISTRATION COST DRIVERS AND PROGRAM VARIANCE ANALYSIS

3

1

2

4 1. INTRODUCTION

- 5 This Schedule describes Hydro Ottawa's operations, maintenance and administration ("OM&A")
- 6 costs by major program. It also provides a year-over-year variance analysis and a major cost
- 7 driver variance summary. Variance explanations are provided for program costs with variances
- 8 greater than \$750K, consistent with the materiality threshold that the utility is employing for
- 9 purposes of this Application.¹

10

- 11 The information contained in this Schedule is guided by the Chapter 2 Filing Requirements for
- 12 Electricity Distribution Rate Applications, as updated on July 12, 2018 and addended on July 15,
- 13 2019 ("Filing Requirements").

14

15 2. OM&A COST DRIVERS

- 16 Table 1 below identifies the year-over-year cost drivers impacting Hydro Ottawa's OM&A.
- 17 Explanations for each cost driver are provided thereafter.

. .

¹⁸ Please see Exhibit 1-1-4: Administration for information on the utility's materiality threshold.



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Table 1 – AS ORIGINALLY SUBMITTED – Recoverable OM&A Cost Drivers² (\$'000,000s)

Major Driver	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year
OPENING BALANCE	\$83.1 ³	\$ 82.6	\$ 82.2	\$ 86.8	\$ 87.5	\$ 91.9
Labour Compensation and Benefits (Table 2)		\$(0.2)	\$3.3	\$0.6	\$1.6	\$2.0
Proactive and Reactive Distribution System Maintenance (Table 3)		\$0.1	\$0.5	\$0.5	\$(0.1)	\$0.3
Facilities, Insurance, and Fuel (Table 5)		\$0.1	\$0.3	\$2.9	\$(1.5)	\$0.2
OEB Fees and CDM Allocation (Table 6)		\$(0.1)	\$0.0	\$0.2	\$0.2	\$0.7
Call Centre, Postage, and Bad Debt (Table 7)		\$0.3	\$(1.0)	\$ (0.7)	\$0.8	\$0.0
Dark Fiber Fees (Table 8)		\$(0.1)	\$0.0	\$0.3	\$0.9	\$(1.7)
Technology (Table 9)		\$0.8	\$0.4	\$0.5	\$1.3	\$0.9
SLA Cost Reclassification		\$0.0	\$0.0	\$(3.7)	\$(0.2)	\$(0.1)
Other	\$(0.5)	\$(1.3)	\$1.1	\$0.1	\$1.4	\$(0.3)
Total Change	\$(0.5)	\$(0.4)	\$4.6	\$0.7	\$4.4	\$2.0
CLOSING BALANCE⁴	\$ 82.6	\$ 82.2	\$ 86.8	\$ 87.5	\$ 91.9	\$ 93.9

³ As displayed in Attachment 4-1-4(A): OEB Appendix 2-JB: Recoverable OM&A Cost Driver Table

⁴ ³ The 2016 Opening Balance represents that which was approved by the OEB in the adjudication of Hydro Ottawa's 5 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application (EB-2015-0004). 6 4 Totals may not sum due to rounding.



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1 Table 1 – UPDATED FOR 2019 ACTUALS – Recoverable OM&A Cost Drivers⁵ (\$'000,000s)

Major Driver	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year
OPENING BALANCE	\$83.1 ⁶	\$ 82.6	\$ 82.2	\$ 86.8	\$ 83.1	\$ 91.9
Labour Compensation and Benefits (Table 2)		\$(0.2)	\$3.3	(\$1.9)	\$4.1	\$2.0
Proactive and Reactive Distribution System Maintenance (Table 3)		\$0.1	\$0.5	\$0.0	\$0.4	\$0.3
Facilities, Insurance, and Fuel (Table 5)		\$0.1	\$0.3	\$3.4	\$(2.0)	\$0.2
OEB Fees and CDM Allocation (Table 6)		\$(0.1)	\$0.0	\$0.2	\$0.2	\$0.7
Call Centre, Postage, and Bad Debt (Table 7)		\$0.3	\$(1.0)	\$(0.7)	\$0.8	\$0.0
Dark Fiber Fees (Table 8)		\$(0.1)	\$0.0	\$0.1	\$1.0	\$(1.7)
Technology (Table 9)		\$0.8	\$0.4	\$0.5	\$1.3	\$0.9
SLA Cost Reclassification		\$0.0	\$0.0	\$(3.2)	\$(0.7)	\$(0.1)
Other	\$(0.5)	\$(1.3)	\$1.1	\$(2.1)	\$3.7	\$(0.3)
Total Change	\$(0.5)	\$(0.4)	\$4.6	\$(3.7)	\$8.8	\$2.0
CLOSING BALANCE ⁷	\$ 82.6	\$ 82.2	\$ 86.8	\$ 83.1	\$ 91.9	\$ 93.9

2

LABOUR COMPENSATION COSTS AND BENEFITS 3 2.1.

4 This first cost driver includes workforce planning, salary increases, step progressions, and 5 changes in insured and statutory benefits, pension, and vacancy allowance.

- 7 Negotiated salary increases and step progressions for unionized employees are determined as
- 8 per Hydro Ottawa's collective agreement with the International Brotherhood of Electrical
- 9 Workers ("IBEW"). The utility's current collective agreement with the IBEW expires on March 31,
- 10 2021. Comparable adjustments are forecasted as merit increases for management and
- 11 non-union employees.

¹² As displayed in UPDATED Attachment 4-1-4(A): OEB Appendix 2-JB: Recoverable OM&A Cost Driver Table

^{13 &}lt;sup>6</sup> The 2016 Opening Balance represents that which was approved by the OEB in the adjudication of Hydro Ottawa's 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application (EB-2015-0004). Totals may not sum due to rounding.



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Hydro Ottawa has taken several proactive measures to contain compensation costs, as outlined in UPDATED Exhibit 4-1-5: Workforce Staffing and Compensation. Table 2 shows total compensation for employees over the 2016-2021 period, including salaries and benefits. The increase in 2018 is largely attributable to overtime costs that were incurred during the restoration activities following three extreme weather events which all caused significant damage to the electricity grid – an ice storm in April, a wind storm in May, and six tornadoes in the Ottawa area in September. As submitted in the utility's original Application, Compensation in 2019 is relatively flat in comparison to 2018, as overtime costs are at a four-year low. After accounting for 2019 actuals, compensation has decreased from 2018, which can be largely explained by reduced overtime, higher than anticipated position vacancies, and a variance in the WSIB Surcharge account - 2018. This account included a surcharge; however, a rebate was received in 2019 due to improvement in claim status year-over-year. Overall, as indicated by the compound annual growth rate ("CAGR") in Table 2 below, the annual average increase in total compensation costs over 2016-2021, including benefits, is 2.0%.



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Table 2 – AS ORIGINALLY SUBMITTED – Total Compensation Costs, Including Benefits

(\$'000,000s)

Total Compensation	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ⁸
Costs	\$72.1	\$71.9	\$75.2	\$75.8	\$77.5	\$79.5	2.0%
Year-over-Year Variance	e ⁹	\$(0.2)	\$3.3	\$(0.6)	\$1.6	\$2.0	

4 Table 2 – UPDATED FOR 2019 ACTUALS – Total Compensation Costs, Including Benefits (\$'000,000s)

Total Compensation	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR ¹⁰
Costs	\$72.1	\$71.9	\$75.2	\$73.3	\$77.5	\$79.5	2.0%
Year-over-Year Variance	e ¹¹	\$(0.2)	\$3.3	\$(1.9)	\$4.1	\$2.0	

6

2

 $^{^{7}\,}$ 8 CAGR represents the compound annual growth rate between 2016 and 2021.

⁸ Variance may exist due to rounding.

⁹ ¹⁰ CAGR represents the compound annual growth rate between 2016 and 2021.

^{10 &}lt;sup>11</sup> Variance may exist due to rounding.



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Figure 1 – Work Crews Restoring Power Following 2018 Tornado Event



3

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4 2.2. PROACTIVE AND REACTIVE DISTRIBUTION SYSTEM MAINTENANCE

5 Within the Proactive and Reactive Distribution System Maintenance category, there are three 6 programs which collectively represent 70% of total expenditures, on average:

- Vegetation Management
- Underground Cable Locates
- 10 Spills Cleanup



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- 1 Table 3 below summarizes Proactive and Reactive Distribution System Maintenance external
- 2 costs, inclusive of these three categories, and has been updated to reflect 2019 actuals. 12

4 Table 3 – AS ORIGINALLY SUBMITTED – Summary of Proactive and Reactive Distribution 5 System Maintenance Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ¹³
Vegetation Management	\$3.3	\$3.2	\$3.3	\$2.8	\$3.0	\$3.0	(1.9)%
Underground Cable Locates	\$2.1	\$2.2	\$2.7	\$2.8	\$2.9	\$3.1	8.5%
Spills Cleanup	\$0.7	\$0.6	\$0.8	\$1.5	\$0.7	\$0.7	0.4%
Others	\$2.6	\$2.8	\$2.5	\$2.7	\$3.1	\$3.2	4.0%
TOTAL ¹⁴	\$8.7	\$8.8	\$9.3	\$9.8	\$9.7	\$10.0	2.9%
Year-over-Year Variance ¹⁵		\$0.1	\$0.5	\$0.5	\$(0.1)	\$0.3	

6

7 Table 3 – UPDATED FOR 2019 ACTUALS – Summary of Proactive and Reactive

8 Distribution System Maintenance Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR ¹⁶
Vegetation Management	\$3.3	\$3.2	\$3.3	\$2.4	\$3.0	\$3.0	(1.9)%
Underground Cable Locates	\$2.1	\$2.2	\$2.7	\$2.9	\$2.9	\$3.1	8.5%
Spills Cleanup	\$0.7	\$0.6	\$0.8	\$1.5	\$0.7	\$0.7	0.4%
Others	\$2.6	\$2.8	\$2.5	\$2.5	\$3.1	\$3.2	4.0%
TOTAL ¹⁷	\$8.7	\$8.8	\$9.3	\$9.3	\$9.7	\$10.0	2.9%
Year-over-Year Variance ¹⁸		\$0.1	\$0.5	\$0.0	\$(0.4)	\$0.3	

^{10 &}lt;sup>12</sup> The costs shown exclude internal labour costs.

^{11 &}lt;sup>13</sup> CAGR represents the compound annual growth rate between 2016 and 2021.

^{12 &}lt;sup>14</sup> Totals may not sum due to rounding.

^{13 &}lt;sup>15</sup> Variance may exist due to rounding.

^{14 &}lt;sup>16</sup> CAGR represents the compound annual growth rate between 2016 and 2021.

^{15 17} Totals may not sum due to rounding.

^{16 &}lt;sup>18</sup> Variance may exist due to rounding.



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1 2.2.1. Vegetation Management

2 Hydro Ottawa's Vegetation Management program is part of a preventative maintenance

- 3 approach with the overall goals of maintaining safety clearances and minimizing outages
- 4 caused by tree contact. The program involves the annual trimming of more than 40,000 trees
- 5 which are located near overhead power lines, both in the downtown core and in suburban
- 6 areas. The program is executed by contractors for an annual cost of approximately \$3.0M.

7

- The two key drivers of the contract costs are the number of trees trimmed each year and the
- 9 negotiated contract rate. The cost increase each year represents a general inflationary increase
- 10 built into the contract price.

11

12 In 2019, these contracts were re-tendered through a competitive procurement process and 13 renewed at a lower price point. This resulted in a CAGR rate of -1.9% for the program over the

14 2016-2021 period.

15

16 Figure 2 – Hydro Ottawa Crew Trimming Trees

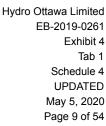




18

19 2.2.2. Underground Cable Locates

- 20 The Underground Cable Locates program is part of an overall Public Safety program. Within this
- 21 program, utilities, home owners, and contractors must call to confirm that any excavation area in
- 22 which they are working does not contain any buried utility infrastructure. The locate service is
- 23 then executed by Hydro Ottawa's contractors.





1

Figure 3 – Underground Cable Locates Public Safety Reminders



- 2 Underground Cable Locates requests are customer demand-driven and hence the volume
- 3 portion of the cost is not controllable by Hydro Ottawa. In the past three years, the volume of
- 4 calls have increased significantly, largely due to growing demand for fiber-to-the-home ("FTTH")
- 5 technology, which is expected to continue increasing. 19

7 In order to mitigate the associated costs, Hydro Ottawa negotiated an Alternate Locate

- 8 Agreement as part of a Local Distribution Company ("LDC") consortium which eliminates the
- 9 need for a locate for low-risk electricity infrastructure work (e.g. hand-digging tree roots). In
- 10 addition, in 2019 Hydro Ottawa changed its requirement for a relocate to be performed if the
- 11 previous locate is older than 30 days, with 60 days now serving as the new date of expiration.

¹² FTTH, also called "fiber to the premises" ("FTTP"), is the installation and use of optical fiber from a central point

¹³ directly to individual buildings – such as residences, apartment buildings, and businesses – in order to provide

¹⁴ high-speed internet access.



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1 This change will reduce the number of relocate requests and the associated costs without

2 negatively impacting public safety.

3

- 4 The CAGR for this program over the 2016-2021 period is 8.5%. As noted above, this relatively
- 5 high rate is driven primarily by customer volumes, with FTTH being the largest contributor. Table
- 6 4 below provides detail for two of the Historical Years, showing both the number of locate
- 7 requests and the average cost per request. The 2019 Historical Year has been added to the
- 8 updated version of Table 4 below. As a result, the number of locate requests and the average
- 9 cost per request have been updated.

10

11 Table 4 – AS ORIGINALLY SUBMITTED – Indicative Underground Cable Locates Costs

Year	# of Locates	Total Costs (\$'000,000s)	Average Cost per Locate
2017 Historical Year	87,622	\$2.2	\$25.10
2018 Historical Year	102,798	\$2.8	\$26.82
Percentage Variance	17.3%	25.4%	6.9%

12

13 Table 4 - UPDATED FOR 2019 ACTUALS - Indicative Underground Cable Locates Costs

Year	# of Locates	Total Costs (\$'000,000s)	Average Cost per Locate
2017 Historical Year	87,622	\$2.2	\$25.10
2018 Historical Year	102,798	\$2.8	\$26.82
2019 Historical Year	104,063	\$2.9	\$28.05
Percentage Variance (2019 vs. 2017)	18.8%	31.8%	11.8%

14

15 2.2.3. Spills Cleanup

- 16 The Spills Cleanup program costs are driven by the number of spills and the amount of
- 17 remediation work required.²⁰ The primary causes of spill cleanup are vehicle fluid spills (i.e.
- 18 engine oil, hydraulic oil, transmission fluid, etc.) and insulating oil spills from equipment, such as

^{19 20} This program excludes spills resulting from Damage to Plant.



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1 distribution transformers. Distribution transformers were the source of 95% of the reported spill

2 incidents from 2015-2018. Leaking transformers are identified through system operations as

3 well as the Underground Transformer Visual and Thermographic Inspection program (see

4 Figure 4 below for an example of a leaking transformer).

5

6 In 2018, there were 120 equipment oil spills identified, 59 of which required remediation. This 7 represented a 40% increase over the 2015-2017 average. This change was driven, in part, by

8 2018 inspections largely occurring in the eastern region of the City of Ottawa, where the

majority of transformers were installed during the 1980s. Not only are the transformers in this

o area advanced in age, they are situated much closer to the road as compared to other areas,

11 making them more susceptible to corrosion from salt and thus to a higher number of leaks.21

2 Although the spills were identified in 2018, the timing of the inspection program resulted in much

13 of the remediation work being completed in 2019, which resulted in the spike in program costs

14 during that year.

15

16 Hydro Ottawa is projecting program costs in 2020 and going forward to revert to normal ranges

17 and historical averages.

¹⁸ For more information on the asset demographics and lifecycle of transformers, including average age, please see

¹⁹ Section 6 of Exhibit 2-4-3: Distribution System Plan.



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Figure 4 – Leaking Transformer



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4 2.3. FACILITIES, INSURANCE, AND FUEL

- 5 The third category of cost driver focuses on facilities, insurance, and fuel. Table 5 below
- 6 displays each of these items and the associated CAGR over the 2016-2021 period. The
- 7 updated version of Table 5 below reflects updates for 2019 actuals.



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Table 5 – AS ORIGINALLY SUBMITTED – Summary of Facilities, Insurance, and Fuel (\$'000,000s)

2016 2017 2018 2019 2020 2021 **Historical** CAGR²² Historical Historical Bridge Test Bridge Year Year Year Year Year Year **Property Tax** \$2.1 \$2.1 7.8% \$2.3 \$3.3 \$3.0 \$3.1 Utilities \$1.0 \$0.9 \$0.9 \$1.0 \$0.5 \$0.5 (12.2)% **Facilities Overlap** \$0.0 \$0.0 \$0.0 \$1.7 \$0.0 \$0.0 N/A N/A **Substation Rental** \$0.0 \$0.0 \$0.0 \$0.0 \$0.6 \$0.6 Insurance \$1.4 \$1.5 \$1.6 \$1.7 \$1.9 \$2.0 7.3% Fuel \$0.6 \$0.7 \$0.7 \$0.7 \$0.8 \$0.9 8.9% TOTAL²³ \$5.1 6.9% \$5.2 \$5.5 \$8.4 \$6.9 \$7.1 Year-over-Year Variance²⁴ \$0.3 \$0.2 \$0.1 \$2.9 \$(1.5)

Table 5 - UPDATED FOR 2019 ACTUALS - Summary of Facilities, Insurance, and Fuel (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR ²⁵
Property Tax	\$2.1	\$2.1	\$2.3	\$2.7	\$3.0	\$3.1	7.8%
Utilities	\$1.0	\$0.9	\$0.9	\$1.0	\$0.5	\$0.5	(12.2)%
Facilities Overlap	\$0.0	\$0.0	\$0.0	\$2.6	\$0.0	\$0.0	N/A
Substation Rental	\$0.0	\$0.0	\$0.0	\$0.0	\$0.6	\$0.6	N/A
Insurance	\$1.4	\$1.5	\$1.6	\$1.7	\$1.9	\$2.0	7.3%
Fuel	\$0.6	\$0.7	\$0.7	\$0.8	\$0.8	\$0.9	8.9%
TOTAL ²⁶	\$5.1	\$5.2	\$5.5	\$8.9	\$6.9	\$7.1	6.9%
Year-over-Year Variance	27	\$0.1	\$0.3	\$3.4	\$(2.0)	\$0.2	

6

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 $^{^{7}}$ 22 CAGR represents the compound annual growth rate between 2016 and 2021.

^{8 &}lt;sup>23</sup> Totals may not sum due to rounding.

⁹ ²⁴ Variance may exist due to rounding.

^{10 &}lt;sup>25</sup> CAGR represents the compound annual growth rate between 2016 and 2021.

^{11 &}lt;sup>26</sup> Totals may not sum due to rounding.

^{12 &}lt;sup>27</sup> Variance may exist due to rounding.



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Property taxes are paid to the City of Ottawa annually based on the value of the buildings and substations and the associated municipal tax rates. In 2019, the spike in taxes was due to the following: (i) overlap in property tax costs that arose during the transition from the Albion and Merivale properties to the Hunt Club and Dibblee properties; and (ii) the increase in the assessed values of the new properties. Property tax in 2020 is anticipated to be higher than 2018 due to higher assessed values from the new buildings only, as the Albion and Merivale buildings were sold in 2019. The percentage increase for the 2021 Test Year is based on the City of Ottawa's projection of a 3% increase.

9

Utilities include electricity, water, and natural gas. Utility costs are expected to decrease by half, largely due to the net metered solar arrays that were installed at the new buildings in 2019. Notwithstanding the fact that the move to the new facilities occurred during Q2 2019, the impact of this reduction is not seen until 2020 and 2021. This is on account of the overlap in costs experienced in 2019, as described above, with the transition between Albion and Merivale to Hunt Club and Dibblee. Amongst other things, the installation of the net metered solar arrays at the new facilities demonstrates Hydro Ottawa's leadership in the reduction of its environmental footprint. It also contributed to the utility being named one of Canada's Greenest Employers in 2019 (which marked the seventh occasion Hydro Ottawa has earned this distinction).



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Figure 5 – Net Metered Solar Arrays at New Facilities



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4 In addition to property taxes and utilities, the transition between Albion and Merivale to Hunt 5 Club and Dibblee entailed a duplication of other facilities-related operating costs, seeing as the 6 Merivale and Albion property sales closed in September and November 2019, respectively.

Moving costs of \$0.5M are also captured in the "Facilities Overlap" line in Table 5 above.

8

9 With respect to substation rentals, Hydro Ottawa and Hydro One Networks Inc. ("HONI") have 10 joint-use substations. In the case of Hydro Ottawa-owned substations at which HONI has 11 equipment, Hydro Ottawa has been charging HONI rent for the portion of the substation 12 occupied by HONI's equipment. HONI has recently indicated that it intends to commence a 13 reciprocal arrangement, in which it will charge Hydro Ottawa for the space occupied by Hydro 14 Ottawa's equipment at HONI-owned substations. Hydro Ottawa has not yet been charged an 15 amount by HONI. Using a similar methodology to its own, however, Hydro Ottawa estimates the 16 expected rental cost will be approximately \$0.6M.

17

Insurance premiums have been increasing approximately 5%-6% per year due to global market factors and higher insured values as new assets come on-line and replacement costs increase



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for existing assets. In 2020, this increase is set to be higher, as a full property valuation exercise was completed for insured assets which resulted in an increase to the overall valuation of approximately \$100.0M. Along with the significant hardening of the insurance markets due to financial losses by the insurance industry, this has driven large increases for property insurance owned by Hydro Ottawa. Cyber security premiums have also risen significantly, as policy wording and coverage limits were strengthened to mitigate the increasing threat of cyber attacks.

8

9 Hydro Ottawa purchases approximately \$0.7M per year in fuel. These costs are driven both by market price and consumption. Fuel consumption generally ranges from 50,000 to 70,000 litres per month to support 234 vehicles and other transportation equipment.²⁸ The consumption for the Bridge Years and Test Year is relatively flat. However, fuel costs are expected to rise over the term of the utility's 2021-2025 rate plan.

14

15 2.4. OEB FEES AND CONSERVATION AND DEMAND MANAGEMENT ALLOCATION

The fourth key cost driver is related to fees assessed to Hydro Ottawa by the OEB, in accordance with the OEB's Cost Assessment model, and to conservation and demand management ("CDM") allocation costs. The utility has grouped these together, in light of the fact that they are outside of its control and are driven by public policy and regulatory requirements.

. .

²⁰ Please see Attachment 2-4-3(F): Fleet Replacement Program for details on Hydro Ottawa's vehicle fleet.



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Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
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Table 6 – AS ORIGINALLY SUBMITTED – Summary of OEB Fees and CDM Allocation

Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ²⁹
OEB Fees	\$1.1	\$1.1	\$1.1	\$1.0	\$1.1	\$1.6	8.0%
CDM Allocation	\$(0.5)	\$(0.6)	\$(0.6)	\$(0.4)	\$(0.2)	\$0.0	(41.4)%
TOTAL ³⁰	\$0.6	\$0.5	\$0.5	\$0.7	\$0.9	\$1.6	21.1%
Year-over-Year Varian	ce ³¹	\$(0.1)	\$0.0	\$0.2	\$0.2	\$0.7	

4 Table 6 – AS REVISED – Summary of OEB Fees and CDM Allocation Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ³²
OEB Fees	\$1.1	\$1.1	\$1.1	\$1.0	\$1.1	\$1.6	8.0%
CDM Allocation	\$(0.5)	\$(0.6)	\$(0.6)	\$(0.4)	\$(0.2)	\$0.0	(41.4)%
TOTAL ³³	\$0.6	\$0.5	\$0.5	\$0.6	\$0.9	\$1.6	21.1%
Year-over-Year Varian	се ³⁴	\$(0.1)	\$0.0	\$0.2	\$0.2	\$0.7	

Table 6 – UPDATED FOR 2019 ACTUALS – Summary of OEB Fees and CDM Allocation

Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR ³⁵
OEB Fees	\$1.1	\$1.1	\$1.1	\$1.1	\$1.1	\$1.6	8.0%
CDM Allocation	\$(0.5)	\$(0.6)	\$(0.6)	\$(0.4)	\$(0.2)	\$0.0	(41.4)%
TOTAL ³⁶	\$0.6	\$0.5	\$0.5	\$0.7	\$0.9	\$1.6	21.1%
Year-over-Year Varian	се ³⁷	\$(0.1)	\$0.0	\$0.2	\$0.2	\$0.7	

^{8 &}lt;sup>29</sup> CAGR represents the compound annual growth rate between 2016 and 2021.

 $^{^{9}}$ Totals may not sum due to rounding.

^{10 31} Variance may exist due to rounding.

^{11 32} CAGR represents the compound annual growth rate between 2016 and 2021.

^{12 &}lt;sup>33</sup> Totals may not sum due to rounding.

^{13 &}lt;sup>34</sup> Variance may exist due to rounding.

^{14 &}lt;sup>35</sup> CAGR represents the compound annual growth rate between 2016 and 2021.

^{15 &}lt;sup>36</sup> Totals may not sum due to rounding.

^{16 &}lt;sup>37</sup> Variance may exist due to rounding.



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1 Pursuant to modifications to its Cost Assessment model that were adopted in 2016, the OEB

2 has enabled Hydro Ottawa to record the difference between OEB cost assessments that were

3 built into the utility's 2016-2020 rates and cost assessments that resulted from the new model in

4 a balance sheet variance account.38 This treatment will not be applicable to Hydro Ottawa's

5 2021-2025 rates. Accordingly, the utility has included the full amount of OEB cost assessment

6 fees in OM&A starting in 2021.

7

3 On March 21, 2019, the 2015-2020 Conservation First Framework ("CFF") program

9 administered by the Independent Electricity System Operator ("IESO") was terminated, pursuant

to Ministerial directive. During this program, Hydro Ottawa was providing certain shared

11 services to its internal IESO-funded CDM program. These services included Human Resources

12 ("HR"), Facilities, Information Technology ("IT"), Finance, Communication, and Fleet, for a total

13 cost of \$0.6M, as shown in the 2017 and 2018 Historical Years columns in Table 6 above. As a

14 result, Hydro Ottawa's OM&A was reduced by the amount of this allocation during those years.

15 However, after the CFF wind-down period is complete in 2021, this shared service recovery will

16 cease.

17

18 2.5. CONTACT CENTRE, POSTAGE, AND BAD DEBT

19 The next category of cost driver involves matters pertaining to customer care and billing. As

20 shown in Table 7 below, contact centre, postage, and fluctuations in bad debt serve as the

21 primary drivers. The updated version of Table 7 below reflects 2019 actuals. Together, these

22 drivers are set to produce an overall reduction in costs during 2016-2021.

²³ Please see UPDATED Exhibit 4-2-4: Regulatory Costs for further details on the OEB's Cost Assessment model.



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Table 7 – AS ORIGINALLY SUBMITTED – Summary of External Contact Centre, Postage, and Bad Debt Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ³⁹
External Contact Centre	\$2.0	\$1.7	\$1.6	\$1.6	\$1.7	\$1.7	(3.3)%
Postage	\$2.1	\$1.9	\$1.8	\$1.8	\$1.8	\$1.8	(3.2)%
Bad Debt	\$1.4	\$2.2	\$1.5	\$0.8	\$1.5	\$1.5	1.7%
TOTAL ⁴⁰	\$5.5	\$5.8	\$4.9	\$4.2	\$5.0	\$5.0	(1.8)%
Year-over-Year Varia	ance ⁴¹	\$0.3	\$(1.0)	\$(0.7)	\$0.8	\$0.0	

4 Table 7 – UPDATED FOR 2019 ACTUALS – Summary of External Contact Centre, Postage, 5 and Bad Debt Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR ⁴²
External Contact Centre	\$2.0	\$1.7	\$1.6	\$1.5	\$1.7	\$1.7	(3.3)%
Postage	\$2.1	\$1.9	\$1.8	\$1.8	\$1.8	\$1.8	(3.2)%
Bad Debt	\$1.4	\$2.2	\$1.5	\$0.9	\$1.5	\$1.5	1.7%
TOTAL ⁴³	\$5.5	\$5.8	\$4.9	\$4.2	\$5.0	\$5.0	(1.8)%
Year-over-Year Variance44		\$0.3	\$(1.0)	\$(0.7)	\$0.8	\$0.0	

7 In 2017, Hydro Ottawa signed a contract with a new provider of contact centre services. This 8 resulted in lower costs and better service levels. The costs associated with contact centre 9 services are largely driven by the duration of customer calls. Call lengths have been reduced as 10 a result of increased automation, including planned outage notifications sent to customers in 11 advance through Auto Dialer, Move-In/Move-Out requests processed through the utility's web

6

2

^{12 &}lt;sup>39</sup> CAGR represents the compound annual growth rate between 2016 and 2021.

^{13 40} Totals may not sum due to rounding.

^{14 41} Variance may exist due to rounding.

^{15 42} CAGR represents the compound annual growth rate between 2016 and 2021.

^{16 43} Totals may not sum due to rounding.

^{17 44} Variance may exist due to rounding.



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1 portal, increased usage of MyAccount, and expanded communications through various social

2 media channels.45 The total contract cost for the contact centre was \$2.0M in 2016; by 2021, it

3 is expected to be \$1.7M.

4

Postage rates have historically increased by 3% per year, while Hydro Ottawa's customer growth has averaged 1% per year. Despite these trends, the utility is showing a CAGR of -3.2% on account of its continued success in enrolling customers in e-billing. Hydro Ottawa has achieved the highest e-billing participation rate among Ontario LDCs (almost 50% of customers), which has translated into an estimated annual savings of \$1.9M in avoided postage and printing costs.

11

Bad debt increased significantly in 2017, when the OEB first introduced the Disconnection Moratorium for electricity distributors. To address this increase, Hydro Ottawa undertook several mitigation efforts, including the implementation of Auto Dialer functionality. The Auto Dialer replaced the hand-delivery of the 48-hour warning notices, meaning more customers can be reached and reminded of payments in a much more timely fashion. Since the launch of the Auto Dialer solution, bad debt expenses have been trending more positively. Bad Debt as a percentage of Total Electricity Revenue is a metric that continues to be monitored by the utility, and since 2017, performance has trended in a positive direction. Despite the Disconnection Moratorium, the utility anticipates that bad debt will eventually return to pre-2017 levels.

21

22 **2.6. DARK FIBER FEES**

The construction of an optical telecommunications network was approved by the OEB, as part of Hydro Ottawa's last rebasing application.⁴⁶ In 2019, the utility began transitioning from the current leased fiber to the new fiber optic network in stages. The exit fees from the lease contracts (based on the contract terms and conditions) are shown in Table 8 below, which has

²⁷ More information on these initiatives is available in Exhibit 1-1-13: Productivity and Continuous Improvement

 $^{^{29}}$ 46 Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).



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- 1 been updated to account for 2019 actuals. Hydro Ottawa expects to exit all of its lease contracts
- 2 by 2022, which will result in a permanent operating cost reduction of \$1.0M.

Table 8 – AS ORIGINALLY SUBMITTED – Summary of Dark Fiber Lease and Exit Fees (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ⁴⁷
Annual Lease	1.1	1.0	1.0	0.9	0.7	0.1	N/A
Exit Fee	0.0	0.0	0.0	0.4	1.5	0.4	N/A
TOTAL ⁴⁸	1.1	1.0	1.0	1.3	2.2	0.5	(16.2%)
Year-over-Year Varian	ce ⁴⁹	(0.1)	0.0	0.3	0.9	(1.7)	N/A

Table 8 - UPDATED FOR 2019 ACTUALS - Summary of Dark Fiber Lease and Exit Fees (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR ⁵⁰
Annual Lease	1.1	1.0	1.0	1.0	0.7	0.1	N/A
Exit Fee	0.0	0.0	0.0	0.2	1.5	0.4	N/A
TOTAL ⁵¹	1.1	1.0	1.0	1.2	2.2	0.5	(16.2%)
Year-over-Year Varian	ce ⁵²	(0.1)	0.0	0.2	1.0	(1.7)	N/A

10 2.7. TECHNOLOGY

- 11 Attachment 1-1-13(B): Digital Strategy identifies Hydro Ottawa's priorities and goals for
- 12 leveraging information and operational technology in support of its business objectives over the
- 13 2021-2025 period. The Digital Strategy revolves around four central themes: an enhanced

9

3

5

6

¹⁴ CAGR represents the compound annual growth rate between 2016 and 2021.

^{15 &}lt;sup>48</sup> Totals may not sum due to rounding.

^{16 49} Variance may exist due to rounding.

^{17 50} CAGR represents the compound annual growth rate between 2016 and 2021.

¹⁸ Totals may not sum due to rounding.

^{19 52} Variance may exist due to rounding.



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1 customer experience; evolution of the grid; increased productivity through automation; and

2 participation in energy innovation and technology.

3

4 As dependence on technology and automation increases, costs can as well. As the Digital

5 Strategy continues to evolve and align with best practices, Hydro Ottawa is seeking

6 readily-available solutions that best fit our business needs. In many instances, this has taken

7 the form of the utility moving away from traditional on-premise solutions to cloud-based options.

8 Cloud-based options simplify internal infrastructure and leverage turnkey options offered by

9 cloud solutions. With this cloud-based focus, Hydro Ottawa has realized a year-over-year

increase in IT subscriptions, resulting in a CAGR of 7.9% over the 2016-2021 period, as shown

11 in Table 9 below.

12

13 One of the cost evaluation and control measures applied by Hydro Ottawa to this critical and

14 growing part of the business is benchmarking. For a copy of the IT Budget Assessment

15 Benchmark study that was prepared to support the development of this Application, please refer

16 to Attachment 1-1-12(F).

1718

Table 9 – Summary of Technology Costs (\$'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ⁵³
Technology Costs	8.2	9.0	9.4	9.9	11.2	12.1	7.9%
Year-over-Year Variance ⁵⁴		0.8	0.4	0.5	1.3	0.9	

19

20 2.8. SERVICE LEVEL AGREEMENT COSTS RECLASSIFICATION

- 21 Consistent with section 2.4.3.2 of the Filing Requirements and OEB guidance issued in 2018,
- 22 Service Level Agreement ("SLA") costs were no longer included in OM&A as of 2019.55 (Please

²³ CAGR represents the compound annual growth rate between 2016 and 2021.

²⁴ Variance may exist due to rounding.

²⁵ Ontario Energy Board, Presentation re: Chapter 1 & 2 Filing Requirements Update for 2019 Applications: Summary

²⁶ of Key Changes (July 19, 2018), slides 15-16.



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see Exhibit 4-2-1: Shared Services and Corporate Cost Allocation and UPDATED Exhibit 3-2-1:
Other Revenue Summary for details). Prior to 2019, Hydro Ottawa recorded the SLA revenue in
USofA 4325 as Revenues from Merchandising and Jobbing, but left the associated costs in
OM&A. With the growth of Hydro Ottawa's affiliate business activity, the amounts charged to
these affiliates and the associated costs through SLAs increased significantly, as outlined in
Attachment 4-2-1(A): OEB Appendix 2-N - Shared Services and Corporate Cost Allocation,
which has been updated for 2019 actuals and can be found in UPDATED Attachment 3-2-1(B):
OEB Appendix 2-N - Shared Services and Corporate Cost Allocation. The costs, along with the
associated SLA revenue, are now reported in USofA 4330 Costs from Merchandising and
Jobbing and are deducted from Hydro Ottawa's OM&A.

11

12 3. OM&A PROGRAM COST & VARIANCE ANALYSIS

Pursuant to section 2.4.3 of the Filing Requirements, the following section provides a variance analysis for the 2016-2021 period of Hydro Ottawa's OM&A costs by major program. Table 10 provides Historical, Bridge, and Test Year expenditures by the program categories and the five-year CAGR for each program category. The updated version of Table 10 below reflects 2019 actuals using 2016-2019 Historical Years, 2020 Bridge Year, and 2021 Test Year. Table 11, which has also been updated for 2019 actuals, provides a year-over-year analysis of variances per program, as expressed in both dollar and percentage terms. Any variances exceeding the \$750K materiality threshold for this Application are explained. The OM&A program costs shown in Table 10 are net of any allocations to the capital programs and, as of 2019, net of the SLA costs discussed in section 2.8 above.

23

24 UPDATED Attachment 4-1-3(D): OEB Appendix 2-D - Overhead Expenses details both the OM&A costs by program before capitalization, as well as the OM&A that has been capitalized. Hydro Ottawa's capitalized overhead costs conform with the OEB's policy on capitalization. The capitalization policy has not changed since 2016, with the percentage of OM&A costs capitalized representing between 26% and 29%. For more details on the utility's capitalization policy, please see Exhibit 2-4-4: Capitalization Policy.



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Table 10 – AS ORIGINALLY SUBMITTED – Summary of OM&A Program Costs (\$'000s)

Programs	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR ⁵⁶
Collections, Accounts & Activities	\$3,121	\$3,775	\$2,882	\$2,489	\$3,279	\$3,378	1.6%
Corporate Costs	\$8,284	\$5,855	\$6,385	\$6,827	\$7,071	\$7,625	(1.6)%
Customer & Community Relations	\$7,191	\$7,291	\$7,011	\$6,852	\$7,893	\$8,459	3.3%
Customer Billing	\$9,480	\$8,936	\$8,866	\$7,734	\$8,634	\$9,193	(0.6)%
Distribution Operations	\$17,754	\$18,885	\$19,312	\$19,870	\$20,382	\$21,458	3.9%
Engineering & Design	\$6,872	\$6,879	\$7,541	\$7,419	\$8,746	\$8,566	4.5%
Facilities	\$6,652	\$6,442	\$7,124	\$9,541	\$7,339	\$7,476	2.4%
Finance	\$3,918	\$3,847	\$3,964	\$3,042	\$3,340	\$3,417	(2.7)%
Human Resources & Training	\$4,118	\$3,827	\$4,054	\$3,559	\$3,795	\$3,890	(1.1)%
Information Management & Technology	\$7,652	\$8,262	\$10,692	\$10,516	\$11,953	\$10,085	5.7%
Metering	\$2,266	\$2,478	\$2,200	\$2,059	\$2,586	\$2,612	2.9%
Regulatory Affairs	\$2,024	\$2,037	\$2,157	\$2,012	\$2,248	\$2,986	8.1%
Safety, Environment & Business Continuity	\$2,045	\$2,262	\$3,423	\$4,429	\$3,662	\$3,719	12.7%
Supply Chain	\$1,244	\$1,471	\$1,252	\$1,198	\$1,062	\$1,060	(3.2)%
GRAND TOTAL ⁵⁷	\$82,621	\$82,245	\$86,863	\$87,545	\$91,990	\$93,923	2.6%

 $^{^{3}}$ 56 CAGR represents the compound annual growth rate between 2016 and 2021. 4 57 Totals may not sum due to rounding.



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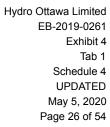
Table 10 – UPDATED FOR 2019 ACTUALS – Summary of OM&A Program Costs (\$'000s)

Programs	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR ⁵⁸
Collections, Accounts & Activities	\$3,121	\$3,775	\$2,882	\$2,232	\$3,279	\$3,378	1.6%
Corporate Costs	\$8,284	\$5,855	\$6,385	\$5,041	\$7,071	\$7,625	(1.6)%
Customer & Community Relations	\$7,191	\$7,291	\$7,011	\$6,478	\$7,893	\$8,459	3.3%
Customer Billing	\$9,480	\$8,936	\$8,866	\$8,489	\$8,634	\$9,193	(0.6)%
Distribution Operations	\$17,754	\$18,885	\$19,312	\$18,154	\$20,382	\$21,458	3.9%
Engineering & Design	\$6,872	\$6,879	\$7,541	\$6,860	\$8,746	\$8,566	4.5%
Facilities	\$6,652	\$6,442	\$7,124	\$9,912	\$7,339	\$7,476	2.4%
Finance	\$3,918	\$3,847	\$3,964	\$3,299	\$3,340	\$3,417	(2.7)%
Human Resources & Training	\$4,118	\$3,827	\$4,054	\$3,287	\$3,795	\$3,890	(1.1)%
Information Management & Technology	\$7,652	\$8,262	\$10,692	\$9,828	\$11,953	\$10,085	5.7%
Metering	\$2,266	\$2,478	\$2,200	\$2,019	\$2,586	\$2,612	2.9%
Regulatory Affairs	\$2,024	\$2,037	\$2,157	\$2,019	\$2,248	\$2,986	8.1%
Safety, Environment & Business Continuity	\$2,045	\$2,262	\$3,423	\$4,207	\$3,662	\$3,719	12.7%
Supply Chain	\$1,244	\$1,471	\$1,252	\$1,289	\$1,062	\$1,060	(3.2)%
GRAND TOTAL ⁵⁹	\$82,621	\$82,245	\$86,863	\$83,113	\$91,990	\$93,923	2.6%

2

4 ⁵⁹ Totals may not sum due to rounding.

 $^{^{3}}$ 58 CAGR represents the compound annual growth rate between 2016 and 2021.





1 Table 11 – AS ORIGINALLY SUBMITTED – Summary of OM&A Program Variances (\$'000s)

Programs	2017-2 Varia		2018- Varia		2019-2 Varia		2020-2019 Variance			
Collections, Account & Activities	\$654	21%	\$(893)	(24)%	\$(394)	(14)%	\$790	32%	\$99	3%
Corporate Costs	\$(2,429)	(29)%	\$531	9%	\$441	7%	\$244	4%	\$554	8%
Customer & Community Relations	\$99	1%	\$(280)	(4)%	\$(159)	(2)%	\$1,041	15%	\$566	7%
Customer Billing	\$(544)	(6)%	\$(69)	(1)%	\$(1,132)	(13)%	\$900	12%	558	6%
Distribution Operations	\$1,131	6%	\$426	2%	\$558	3%	\$513	3%	\$1,075	5%
Engineering & Design	\$6	0%	\$662	10%	\$(122)	(2)%	\$1,327	18%	\$(180)	(2)%
Facilities	\$(211)	(3)%	\$682	11%	\$2,417	34%	\$(2,202)	(23)%	\$137	2%
Finance	\$(71)	(2)%	\$117	3%	\$(922)	(23)%	\$299	10%	\$77	2%
Human Resources & Training	\$(291)	(7)%	\$227	6%	\$(495)	(12)%	\$236	7%	\$95	3%
Information Management & Technology	\$610	8%	\$2,430	29%	\$(177)	(2)%	\$1,437	14%	\$(1,868)	(16)%
Metering	\$212	9%	\$(277)	(11)%	\$(142)	(6)%	\$527	26%	\$26	1%
Regulatory Affairs	\$13	1%	\$120	6%	\$(145)	(7)%	\$236	12%	\$737	33%
Safety, Environment & Business Continuity	\$217	11%	\$ 1,161	51%	\$ 1,007	29%	\$(767)	(17)%	\$ 57	2%
Supply Chain	\$226	18%	\$(218)	(15)%	\$ (55)	(4)%	\$(136)	(11)%	\$ (2)	0%
Grand Total ⁶⁰	\$(376)	0%	\$4,618	6%	\$ 699	1%	\$4,428	5%	\$1,932	2%

 $^{^{\}rm 3}$ $^{\rm 60}$ Totals may not sum due to rounding.



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Table 11 – UPDATED FOR 2019 ACTUALS – Summary of OM&A Program Variances (\$'000s)

Programs	2017-2 Varia		2018- Varia		2019-2018 Variance		2020-2 Varia			2021-2020 Variance	
Collections, Account & Activities	\$654	21%	\$(893)	(24)%	\$(651)	(23)%	\$1,047	47%	\$99	3%	
Corporate Costs	\$(2,429)	(29)%	\$531	9%	\$(1,344)	(21)%	\$2,030	40%	\$554	8%	
Customer & Community Relations	\$99	1%	\$(280)	(4)%	\$(533)	(8)%	\$1,415	22%	\$566	7%	
Customer Billing	\$(544)	(6)%	\$(69)	(1)%	\$(378)	(4)%	\$146	2%	558	6%	
Distribution Operations	\$1,131	6%	\$426	2%	\$(1,157)	(6)%	\$2,228	12%	\$1,075	5%	
Engineering & Design	\$6	0%	\$662	10%	\$(681)	(9)%	\$1,886	27%	\$(180)	(2)%	
Facilities	\$(211)	(3)%	\$682	11%	\$2,789	39%	\$(2,574)	(26)%	\$137	2%	
Finance	\$(71)	(2)%	\$117	3%	\$(665)	(17)%	\$41	1%	\$77	2%	
Human Resources & Training	\$(291)	(7)%	\$227	6%	\$(766)	(19)%	\$508	15%	\$95	3%	
Information Management & Technology	\$610	8%	\$2,430	29%	\$(864)	(8)%	\$2,125	22%	\$(1,868)	(16)%	
Metering	\$212	9%	\$(277)	(11)%	\$(182)	(8)%	\$567	28%	\$26	1%	
Regulatory Affairs	\$13	1%	\$120	6%	\$(138)	(6)%	\$229	11%	\$737	33%	
Safety, Environment & Business Continuity	\$217	11%	\$ 1,161	51%	\$785	23%	\$(545)	(13)%	\$ 57	2%	
Supply Chain	\$226	18%	\$(218)	(15)%	\$36	3%	\$(226)	(18)%	\$ (2)	0%	
Grand Total ⁶¹	\$(376)	0%	\$4,618	6%	\$(3,750)	(4)%	\$8,878	11%	\$1,932	2%	

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 $^{^{4}\,\,}$ Totals may not sum due to rounding.



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1 3.1. COLLECTIONS, ACCOUNTS AND ACTIVITIES

- 2 The Collections, Accounts and Activities program captures costs associated with Hydro
- 3 Ottawa's collection activities and bad debt expense. The two main costs in this category are
- 4 compensation and benefits, and bad debt expense.

5

- 6 The CAGR for this program is 1.6%. Despite higher demand and growth in collection activities,
- 7 headcount in this program remained flat due to increased automation. The most notable and
- 8 successful example of the use of automated technology is the implementation of the Auto Dialer
- 9 solution in 2017. This initiative was implemented to help mitigate the high bad debt expense that
- 10 was triggered by the imposition of the Disconnection Moratorium.

- 12 The Auto Dialer functionality was put in place to replace the 48-hour warning notices that were
- 13 previously hand-delivered in advance of a disconnection for non-payment. The Auto Dialer costs
- only \$0.26 per notice vs. hand-delivery at a combined labour and fleet hourly rate of \$80. The
- 15 number of hand-delivered 48-hour warning notices sent to customers dropped from 56,746 in
- 16 2016 to only 5,300 in 2018. This initiative reduced Hydro Ottawa's bad debt expense and other
- 17 operational costs such as fuel, while increasing staff capacity to focus on higher-value work.



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Figure 6 – 48-Hour Warning Disconnection Notice



Visit hydroottawa.com/lov-income-assistance for more information.

3 The year-over-year variances in this program are mainly due to fluctuations in bad debt 4 expense. The increase in 2017 was attributable to the inaugural implementation of a

5 Disconnection Moratorium, which resulted in high accounts receivable aging and associated

6 bad debt expense. In 2018, the bad debt expense dropped, due to the utility's mitigation efforts

7 described above. The expectation is that these levels will be maintained over the 2020-2021

8 period.

9

1

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10 "Bad Debt as a % of Total Electricity Revenue" is a metric that is being monitored and

11 performance since 2017 is trending in a positive direction.

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13 3.2. CORPORATE COSTS

- 14 The Corporate Costs category primarily captures insurance, Future Employee Benefit Costs,
- 15 and management fees from Hydro Ottawa's parent company, Hydro Ottawa Holding Inc.
- 16 (Please refer to Exhibit 4-2-1: Shared Services and Corporate Cost Allocation for additional
- 17 details on management fees).



8 represents a true-up of the balance.

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1 Corporate Costs show a decrease in 2017 compared to 2016 due to the recognition of 2 non-vested sick leave credits of \$1.5M in 2016. In 2016, a liability and associated expense was 3 recognized for accumulated sick leave credits for unionized employees based on an actuarial 4 valuation of \$1.5M. Hydro Ottawa's unionized employees earn sick leave days each year and 5 unused days are carried forward for use in future years. However, when an employee retires or 6 is terminated, there is no pay-out of the accumulated sick leave credits since they do not vest. 7 The expense in each of the remaining Historical, Bridge, and Test Years is minimal as it only

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After accounting for 2019 actuals, 2019 Corporate Costs dropped by \$1.3M. This can be partially explained by the variance in the WSIB Surcharge account - 2018, which included a surcharge. However, a rebate was received in 2019 due to improvement in claim status year-over-year. The expectation for 2020 is back to a neutral level (i.e. neither rebate nor surcharge).

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The CAGR for Corporate Costs, excluding this one-time amount of \$1.5M in non-vested sick leave credits, is approximately 2.4%. All items remain relatively flat except for insurance premiums, which are on the rise because of the following reasons:

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- Higher overall insured property values (including for Hydro Ottawa's new administrative
 and operations buildings), new substations, and the increase in replacement costs of the
 existing substations directly affect the cost of the policy.
- The property market has seen significant "hardening of the market" due to large financial losses incurred by insurance companies globally, which they are looking to recover. This includes catastrophic events in Canada such as wildfires (Fort McMurray), flooding (Calgary, eastern Canada), tornadoes (Ontario, including Ottawa) and an increasing number of wind and ice storms.



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• For a utility like Hydro Ottawa, cyber threats are increasing, and ever-changing in complexity and volume. Higher premiums for cyber coverage reflect the increased coverage and limits required to mitigate cyber threats.

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5 3.3. CUSTOMER AND COMMUNITY RELATIONS

The Customer and Community Relations program captures costs associated with customer experience, Key Accounts, customer contact, and communications staff. Half of the costs are salaries and benefits. The other half includes the Customer Contact Centre services, technology costs, media communications, and the administration of the provincially-mandated Low-Income Energy Assistance Program ("LEAP") and Ontario Electricity Support Program ("OESP").

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As discussed in Exhibit 4-1-6: Conservation and Demand Management, despite the previous IESO-funded, LDC-delivered CDM program being terminated in 2019, Hydro Ottawa proposes to sustain a level of customer engagement, community outreach, and collaboration with other industry players in the CDM space, in order to remain a trusted advisor to its customers and to be able to partner in the pursuit of a smart energy future.

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Through the effective delivery of CDM programming to its customers over the past 15 years, Hydro Ottawa has established a solid reputation as a trusted advisor providing energy-saving expertise in Ottawa's communities. By engaging customers in energy efficiency initiatives, the utility's goal is to reduce total electricity usage, avoid energy waste, and encourage customers to use less energy at times of high demand in Ottawa so as to support province-wide system needs.

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25 Hydro Ottawa is proposing to continue this type of CDM programming starting in mid-2021, with 26 funding recovered through rates – \$0.2M in 2021, seeing as that year's needs are only partial, 27 following on the heels of the expiration of the CFF framework, and \$0.5M from 2022-2025. This 28 funding would be allocated to compensation, marketing, and miscellaneous costs.



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- 1 Contact centre service costs were reduced substantially from 2016, as a result of a transition to
- 2 a new service provider and a decrease in average call duration. The reduction in call minutes is
- 3 attributable to increased automation: planned outage notifications sent to customers in advance
- 4 through Auto Dialer, Move-In/Move-Out requests processed through a web portal, increased
- 5 usage of MyAccount, and increased communications through various social media channels.
- 6 The reduction of contact centre costs was paired with an increase in service offerings from
- 7 Hydro Ottawa. Contact centre hours were extended to include Saturday. In addition, several
- 8 additional technology improvements have been implemented including the following:

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- Social login customers can now login to their Hydro Ottawa account using their passwords for email, Facebook, and Google.
- Customer service is available in 120 languages.
- Call-back assist customers can request a call-back versus waiting on hold.
- Streamlined call-in system one number for both outages and services.
 - Customer self-serve telephony uses voice recognition technology known as "My Voice is My Password."

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- 18 The increase in 2020 from 2019 is largely explained by investments in increased automation,
- 19 including administration and technical support for Hydro Ottawa's mobile application program
- 20 and Field Service Management. These solutions will enhance the customer experience and the
- 21 efficiency of field operations.

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23 3.4. CUSTOMER BILLING

- 24 Customer billing includes costs associated with Billing, Meter to Cash ("MTC"), and Meter Data
- 25 operations and staff.⁶² Technology costs represent about 40% of overall costs, while
- 26 compensation represents approximately 33%.

29 for electricity revenue billing.

²⁷ The MTC group includes the Enterprise Customer Care & Billing System application, Advanced Metering

²⁸ Infrastructure and related applications and data flows which enable business operations, and regulatory compliance



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The overall program costs decreased by an average of 0.6%. These savings are largely associated with a reduction in postage costs on account of increased rates of e-billing enrollment. As noted above, Hydro Ottawa has achieved the highest e-billing participation rate among Ontario LDCs (almost 50% of customers), with estimated annual savings of \$1.9M in avoided postage and printing costs. As an added benefit, Hydro Ottawa's e-billing success is also helping the environment by reducing the use of paper and transportation.

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Figure 7 – E-Billing "Go Paperless" Campaign⁶³



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These postage savings are partially offset by increases in compensation and benefit costs, while the headcount in this area remained flat. The reduction in 2019, and the subsequent in 2020, are due to the timing of the Customer Care & Billing System ungreade project.

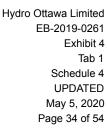
13 increase in 2020, are due to the timing of the Customer Care & Billing System upgrade project

14 and the capitalization of internal resources dedicated to the development, configuration, and

15 implementation of the program whereby not all of the resources were backfilled.

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 ^{16 63} Hydro Ottawa's donations to the Children's Hospital of Eastern Ontario ("CHEO") through its "Go Paperless"
 17 campaign are not rate-recoverable. Please see 4-2-6: Charitable and Political Donations for details.





1 3.5. DISTRIBUTION OPERATIONS

- 2 Distribution Operations includes costs associated with the operations and maintenance of Hydro
- 3 Ottawa's distribution assets. Programs in this area include Vegetation Management,
- 4 Underground Cable Locates, Pole Inspections, Cable Inspections, Infra-Red ("IR") Scanning,
- 5 Load Dispatching, and other general maintenance.
- 7 Distribution Operations spending increased \$1.1M in 2017 (6%) vs. 2016 and \$0.4M (2%) in
- 8 2018 vs. 2017. Spending subsequently decreased \$1.2M in 2019 (6%) vs. 2018. The major
- 9 increases are driven by a larger volume of work and are associated with the following
- 10 distribution maintenance programs:
 - Vegetation Management: the Vegetation Management Program is a prevention investment that is designed to produce long-term reliability gains, while maintaining safety clearance requirements. Trees that contact power lines are one of the major causes of power failure. Hydro Ottawa's System Average Interruption Frequency Index ("SAIFI") caused by tree contacts remained low at 0.08 to 0.12 through 2016-2018, while the industry average was 0.18. ⁶⁴ Planned cycle trim costs averaged \$2.7M annually from 2016-2018. However, several significant adverse weather events in 2017 and 2018 contributed to higher than expected total spend over that timeframe (\$0.4M in total storm response costs in 2017 and \$0.5M in 2018). Storm response decreased in 2019, which contributed to a \$0.3M reduction in outside services from 2018. Over 80% of the program costs are related to outside services. Program costs are expected to decrease through 2021, as a result of Hydro Ottawa having re-tendered and renegotiated its service provider contract in 2019. Renegotiation efforts in 2019 led to delays in planned cycle trim efforts that will catch up in 2020.

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• Underground Cable Locates: the Underground Cable Locates program costs increased over the period of 2016-2020. Two-thirds of the increase is volume-related

²⁹ 64 Source: 2016-2018 Canadian Electricity Association Service Continuity Reporting.



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(i.e. customer demand), while the remaining one-third is due to inflationary pricing increases in Hydro Ottawa's external vendor contract. (Please see section 2.2 above). In 2018, Telecom companies' FTTH initiatives in Ottawa prompted an approximately 20% increase in locate volumes over 2016-2017 levels. This volume increase translated into a rise in costs from \$2.2M in 2017 to 2.7M in 2018 and to \$2.9M in 2019. Volumes are expected to continue growing through 2025. Hydro Ottawa has taken several steps to control program costs, including the establishment of Alternate Locate Agreements in situations where an approved excavator can dig without receiving a traditional locate and the extension of the validity period for locates from 30 to 60 days.

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Despite the cost increases in the foregoing programs, the average annual growth rate for overall Distribution Operations remained 3.9%.

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The \$1.0M increase in 2021 from 2020, as submitted in the utility's original Application, represents a 5% increase. After taking 2019 actuals into account, Distribution Operations spending is set to increase \$2.2M in 2020 (12%) vs. 2019 actuals, and by an additional \$1.1M in 2021 from 2020 (5%). This is largely explained by vacant positions which are expected to be filled in 2020, as well as general compensation increases, as per collective agreements and insured and statutory benefits. Other increases are driven by volume and contract price increases for distribution maintenance.

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Table 12 below, which has been updated for 2019 actuals, provides a summary of Distribution Operations by category.



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Table 12 – AS ORIGINALLY SUBMITTED – Summary of Distribution Operations (\$'000,000s)

	2016 Historical Year ⁶⁵	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year
Distribution Support Programs	\$2.8	\$4.0	\$4.6	\$4.6	\$4.6	\$4.9
Distribution Testing, Inspection & Maintenance	\$1.7	\$1.9	\$2.0	\$1.8	\$2.2	\$2.2
System Operating	\$5.5	\$4.6	\$5.3	\$4.9	\$5.1	\$5.2
Vegetation Management ⁶⁶	\$4.2	\$4.4	\$4.0	\$3.4	\$3.9	\$3.9
Distribution Maintenance	\$1.9	\$2.4	\$1.7	\$2.3	\$2.4	\$2.4
Stations Maintenance	\$2.2	\$1.8	\$2.0	\$2.1	\$2.2	\$2.2
Other ⁶⁷	\$(0.6)	\$(0.3)	\$(0.3)	\$0.7	\$0.0	\$0.6
TOTAL ⁶⁸	\$17.8	\$18.9	\$19.3	\$19.9	\$20.4	\$21.4

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⁴ ⁶⁵ Financials for 2016 were remapped from a different general ledger structure. Program spending may therefore be 5 inconsistent from 2017 to 2021, thus impeding any calculation of CAGR. Accordingly, CAGR is not displayed in this 6 table.

⁶⁶ Vegetation Management in this table includes internal labour costs. Table 3 includes external costs only.

^{8 67 &}quot;Other" comprises compensation for these programs offset with allocation recoveries, and other general operating 9 and administrative costs associated with Distribution Operations (e.g. small tools). Such costs are not allocated to the 10 subprogram level.

^{11 68} Totals may not sum due to rounding.



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Table 12 – UPDATED FOR 2019 ACTUALS – Summary of Distribution Operations (\$'000,000s)

	2016 Historical Year ⁶⁹	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year
Distribution Support Programs	\$2.8	\$4.0	\$4.6	\$4.9	\$4.6	\$4.9
Distribution Testing, Inspection & Maintenance	\$1.7	\$1.9	\$2.0	\$1.5	\$2.2	\$2.2
System Operating	\$5.5	\$4.6	\$5.3	\$5.0	\$5.1	\$5.2
Vegetation Management ⁷⁰	\$4.2	\$4.4	\$4.0	\$2.8	\$3.9	\$3.9
Distribution Maintenance	\$1.9	\$2.4	\$1.7	\$2.1	\$2.4	\$2.4
Stations Maintenance	\$2.2	\$1.8	\$2.0	\$1.8	\$2.2	\$2.2
Other ⁷¹	\$(0.6)	\$(0.3)	\$(0.3)	\$0.1	\$0.0	\$0.6
TOTAL ⁷²	\$17.8	\$18.9	\$19.3	\$18.2	\$20.4	\$21.4

4 The sections below describe each category of Distribution Operations in more detail.

6 **3.5.1. Distribution Support Programs**

- 7 This category includes all operating and maintenance programs required to support the design,
- 8 construction, and operation of the distribution system. Table 13 below contains Asset / Activity
- 9 descriptions for Distribution Support Programs.

10 69 Financials for 2016 were remapped from a different general ledger structure. Program spending may therefore be 11 inconsistent from 2017 to 2021, thus impeding any calculation of CAGR. Accordingly, CAGR is not displayed in this 12 table.

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¹³ Vegetation Management in this table includes internal labour costs. Table 3 includes external costs only.

^{14 71 &}quot;Other" comprises compensation for these programs offset with allocation recoveries, and other general operating

¹⁵ and administrative costs associated with Distribution Operations (e.g. small tools). Such costs are not allocated to the subprogram level.
 Totals may not sum due to rounding.



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Table 13 – Asset/Activity Descriptions for Distribution Support Programs

Asset / Activity	Description					
Transformer Shop	Transformer Shop All costs associated with the repair and testing of distribution transformers in Hydro Ottawa's transformer shop.					
General Operating	Records Field Checks & Standards Development All costs associated with Field Verification of distribution records and the levelopment of standards, including labour associated with participating in the committee meetings of industry and standard-setting bodies.					
Power Quality	Power Quality Administration All costs associated with power quality investigations (as per section 2.3.2.1 of Hydro Ottawa's Conditions of Service).					
Programs	Power Quality Monitoring Services Costs associated with the monitoring and investigation of power quality on Hydro Ottawa's system.					
Underground Lines & Feeders	Excavator Supervision Safety supervision of contractors excavating in proximity to Hydro Ottawa plant.					
	Underground Locate Service Contracted services for protection of the Hydro Ottawa underground system (underground locates services and Ontario One–Call).					

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3 3.5.2. Distribution Testing, Inspection & Maintenance

- 4 This category includes planned operating and maintenance programs associated with the
- 5 testing, inspection, and maintenance of the distribution system. Table 14 below contains Asset /
- 6 Activity descriptions for Distribution Testing, Inspection & Maintenance.



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1 Table 14 - Asset/Activity Descriptions for Distribution Testing, Inspection & Maintenance

Asset / Activity	Description						
Cable Chamber	Cable Chamber Inspection Condition inspection of Hydro Ottawa and customer-owned cable chambers, which are integral to Hydro Ottawa's system. The inspection includes reviewing the condition of the collar, lid, roof, and walls. Cable chamber components that pose an immediate risk to the public, workers, or reliability of the distribution system are identified for immediate corrective actions. If they pose a reduced risk they are identified for planned corrective actions at a later date.						
Distribution Poles	Pole Inspection Work to inspect and test all Hydro Ottawa distribution poles, on a 10-year cycle. Inspection information and estimated remaining strength, using the results of non-destructive resistograph drill tests, are used to assess the pole's condition. Condition information is used to identify and prioritize pole replacement programs.						
Insulator Washing	Insulator Washing Overhead Costs associated with the planned washing of Hydro Ottawa's overhead insulators, in areas subjected to salt spray and heavy contamination to prevent insulation breakdown and pole fires.						
Overhead Inspection	Overhead Thermographic Inspection Costs associated with the overhead thermographic scanning of all overhead assets on a 3-year cycle. Scanning is used to detect abnormal temperature conditions in equipment and connections.						
Overhead Maintenance	Overhead Switch Maintenance Planned detailed inspection and corrective maintenance of Hydro Ottawa's critical overhead distribution switchgear (switch and controls).						
Underground Maintenance	Hydro-Owned Vault Maintenance Planned maintenance of Hydro Ottawa-owned easement/shared vaults within customer facilities. This planned program subjects its vault transformers to a visual and thermographic inspection in addition to minor cleaning.						
Transformers - Underground	Graffiti Abatement Work associated with Hydro Ottawa's Graffiti Abatement program supports compliance with the City of Ottawa's Graffiti By–Law.						
Onderground	Padmount Transformer Painting Planned painting of Hydro Ottawa's padmount transformers, where the finish has deteriorated overtime.						
General Plant	SCADA Maintenance Planned maintenance of Hydro Ottawa Supervisory Control and Data Acquisition ("SCADA") devices. Includes visual inspection, checking communication, cleaning, torquing, and function testing.						
Underground Lines & Feeders	Cable Testing Planned testing of Hydro Ottawa's in—service distribution cable. Testing is completed using non-destructive testing technology to determine the cable's probability of failure resulting from water tree migration. The testing results are used to prioritize cable replacement programs.						
Customer Operating	Field Ops Vault Inspections Inspection of customer-owned vaults to identify deficiencies found that would affect operations or safety. Issues are flagged to equipment owners for corrective action.						
Underground Switchgear	Switchgear CO2 Wash – Padmounted Gear Dry–ice washing of Hydro Ottawa's air insulated underground distribution switchgear, including cleaning of its internal mechanism.						
Underground Thermographic	Underground Switchgear Thermographic and Visual Inspection Visual and thermographic inspection of Hydro Ottawa's gas-insulated and air-insulated distribution padmount switchgear.						
Inspection	Underground Transformer Thermographic and Visual Inspection Visual and thermographic inspection of Hydro Ottawa's underground transformers.						



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Figure 8 – Pole Testing Using Resistograph Drill

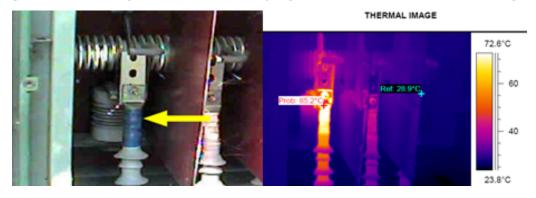


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Figure 9 – Thermographic Scan Identifying Hotspot in Distribution Switchgear



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7 3.5.3. System Operating

- 8 This category includes work associated with daily operations of the distribution system and with
- 9 event response. Table 15 below contains Asset / Activity descriptions for System Operating.

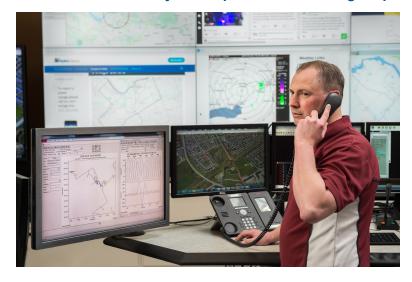


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Table 15 – Asset/Activity Descriptions for System Operating

Asset / Activity	Description					
	Control Room Labour System operator dispatch labour costs.					
Load Dispatching	General System Switching System switching, not directly tied to specific system work.					
	HONI Switching Cost of HONI Switching requested by Hydro Ottawa.					
Overhead Transformers	Operating Overhead Transformers Inspection testing, removing, or resetting of overhead transformers.					
Overhead Lines & Feeders	Operating Overhead Inspecting and testing overhead lines including lightning arrestors, line circuit breakers, switches, and grounds.					
Underground Lines & Feeders	Operating Underground Inspecting and testing underground lines; patrolling.					
Underground Transformers	Operating Underground Transformers Inspection testing, removing, or resetting of underground transformers.					
General Operating	24/7 Police & Fire Call Response Costs associated with 24/7 response to police and fire calls.					
General Operating Vault Maintenance Coordination Labour Coordination of customer vault maintenance.						

Figure 10 – Control Room System Operator Performing Dispatching



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1 3.5.4. Vegetation Management

- 2 This category includes all work associated with the vegetation management of Hydro Ottawa's
- 3 existing overhead lines. Table 16 contains Asset / Activity descriptions for Vegetation
- 4 Management.

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Table 16 – Asset/Activity Descriptions for Vegetation Management

Asset / Activity	Description					
	Vegetation Management – Regular Cycle Trim Trimming of trees, as part of the normal tree trimming cycle, according to current Hydro Ottawa tree trimming standards.					
Tree Trimming	Vegetation Management – Off Cycle Spot Trim Trimming of trees, outside of normal trim cycle, that pose a hazard to reliabilit or safety, and the removal of which falls within current Hydro Ottawa tree trimming standards.					
	Vegetation Management – Off Cycle City of Ottawa Trimming of trees, outside of normal trim cycle, whose removal falls within current Hydro Ottawa tree trimming standards and for which a request was initiated by the City of Ottawa.					
	Vegetation Management – Off Cycle Customer Calls Trimming of trees, outside of normal trim cycle, whose removal falls within current Hydro Ottawa tree trimming standards and for which a request was initiated by a customer.					
	Vegetation Management – Storm (Emergency) Vegetation management required in response to a system outage, imminent event, or safety hazard.					
	Vegetation Management – Emerald Ash Borer Costs associated with the removal of trees affected by the Emerald Ash Borer.					



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Figure 11 – Crews Performing Tree Trimming near Overhead Lines



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4 3.5.5. Distribution Maintenance

- 5 This category includes unplanned work to repair or maintain the distribution system. Table 17
- 6 below contains Asset / Activity descriptions for Distribution Maintenance.



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Table 17 – Asset/Activity Descriptions for Distribution Maintenance

Asset / Activity	Description				
Asbestos Removal	Asbestos Removal & Re–fireproofing Removal of asbestos fireproofing from distribution cables and installing new arc-proof tape.				
Poles & Towers	Repair Poles & Fixtures Repair and maintenance of poles and fixtures, excluding guy and anchor repairs.				
	Repair Guying Repair and maintenance of pole guying and anchors.				
Overhead Maintenance	Overhead Repairs – Conductors & Devices Overhauling and repairing line switches and reclosers. Cleaning Insulators and Bushings. Refusing line cut–outs. Excludes repairs to grounding.				
	Repair Pole Grounds Repairing pole grounds.				
Overhead Services	Overhead Repairs – Secondary Services Repair of overhead secondary conductors.				
Underground Conduit	Underground Repairs – Conduit Moving or changing position of conduit or pipe. Minor alteration repairs or moving racks, ladders, or hangers in hand holes or manholes.				
	Underground Repairs – Secondary Conductor & Devices Repairing secondary conductors, splices, and connections. Repairing or moving junction boxes				
Underground Conductors	Switchgear Maintenance Repair of underground switches, breakers, and control wiring.				
and Devices	Underground Repairs – Primary Conductors & Devices Repairing conductors, splices, and connections. Repairing or moving junction boxes and potheads. Re–fireproofing cable and repairing supports. Excludes services.				
Underground Services	Underground Repairs – Secondary Services Repair of underground secondary services.				
Transformers - Overhead	Transformer Repairs – Overhead Transformers Renewing oil, painting and the like, that is necessary to keep equipment in service. Includes transformer lightning arresters.				
Transformers - Underground	Transformer Repairs – Underground Transformers Renewing oil, painting, and the like that is necessary to keep the equipment in service. Includes transformer lightning arresters.				



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1 3.5.6. Stations Maintenance

- 2 This category includes all planned and unplanned work associated with station maintenance.
- 3 Table 18 contains Asset / Activity descriptions for Station Maintenance.

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Table 18 – Asset/Activity Descriptions for Station Maintenance

Asset / Activity	Description
,	Transformer & Tap Changer Preventative Maintenance Work associated with planned preventative maintenance of station transformers and tap changers. Work is carried out every three to five years, and includes electrical testing and mechanical maintenance. Transformer tap changer maintenance intervals vary with the type.
	Transformer & Tap Changer Reactive Maintenance All work associated with unplanned corrective maintenance of station transformers and tap changers.
Station Transformers	Transformer Inspection Work associated with Hydro Ottawa's annual predictive station transformer maintenance, which includes a detailed visual inspection and infrared scans.
	Transformer Oil Analysis Work associated with oil-dissolved gas and oil quality analysis, undertaken as part of annual transformer predictive maintenance. This program includes a furan analysis to assess the degradation of the transformer's paper insulation, which is completed on a 5-year cycle.
	Transformer Monitor Maintenance Work associated with maintaining temperature controllers and online dissolved gas analysis monitors ("ODGA") on station transformers. These monitors support continuous monitoring of station transformers through SCADA to provide operational and asset condition related information.
	Switchgear & Breaker Inspection All work associated with annual visual and thermographic inspection of station breaker, switchgear, and components.
Station Switchgear	Switchgear & Breaker Maintenance - Preventative All work associated with planned maintenance of station breakers, switchgear and components. Work is carried out every four to six years. Preventative maintenance is performed on breakers, including electrical, mechanical, and type-specific maintenance tasks.
	Every 10 years, detailed preventative maintenance is performed on the entire switchgear assembly, including detailed internal visual inspections, insulation resistance tests, and ensuring that there are no structural deficiencies in the switchgear (e.g. cracks, leaks, or warped metal).



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Asset / Activity (Cont'd)	Description (Cont'd)					
Station Switchgear	Switchgear & Breaker Maintenance - Reactive All work associated with unplanned maintenance of station breakers, switchgear, and components.					
Relays	Relay Maintenance - Preventative All work associated with planned maintenance of relays. Relay maintenance includes function testing, calibration of electromechanical relays, and protection setting updates, if required.					
	Relay Maintenance - Reactive All work associated with unplanned maintenance of relays.					
DC System	DC System Maintenance - Preventative Work associated with planned annual maintenance of station DC systems (Batteries and Chargers). Detailed predictive maintenance is performed on station battery banks and chargers. This includes a detailed visual inspection, infrared scan, as well as electrical and mechanical tests.					
	DC System Maintenance - Reactive All work associated with unplanned maintenance of station DC systems, batteries, and chargers.					
Structures	Station Structures All work associated with maintenance of station structures.					
IR Scan	Station IR Scanning Planned thermographic scanning in stations.					
Station Inspections	Station Inspections Hydro Ottawa performs monthly station inspections to check for any deficiencies and initiate corrective actions. Annual thermographic scan of all electrical components in the station is completed.					



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Figure 12 – Station Transformer Maintenance



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4 3.6. ENGINEERING AND DESIGN

- 5 The Engineering and Design program includes costs associated with Distribution Design,
- 6 System Operations, Asset Planning, Policies, Procedures, and Standards. Over 80% of the
- 7 costs are labour costs, with the remaining 20% being mostly technology costs related to the
- 8 Geographic Information System ("GIS") system, SCADA, and the asset management software
- 9 Copperleaf C55.⁷³

¹⁰ Please see section 1.8 of Exhibit 2-4-3: Distribution System Plan for more information on these items.



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Costs were flat through 2019, as reflected in the utility's original Application, and decreased \$0.7M after accounting for 2019 actuals, but are set to increase in 2020 due to technical support requirements for the new SCADA system and growing organizational demand for technical support in maintenance programs and standards. Higher costs in IT license and maintenance contracts, as well as general compensation and benefit increases, are also a factor. The decrease in 2019 is primarily due to compensation, which is attributed to both overtime costs (which were at a four-year low) and vacancies that were not filled. Vacant positions are expected to be filled in 2020.

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0 3.7. FACILITIES

The Facilities program costs consist of maintenance and operating costs for Hydro Ottawa's administrative and operations buildings and substations. Such costs include summer and winter civil maintenance, cleaning, waste management, building electrical, mechanical, safety, security, general repair, utilities, and property taxes. Approximately 40% of total program costs are property taxes.

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In 2019, as submitted in the utility's original Application, Facilities program costs increased by \$2.4M, or 34%, and \$2.8M, or 39%, after accounting for 2019 actuals, primarily on account of the timing overlap in the sale of the utility's old buildings and the occupation of its new ones, in addition to other one-time costs such as moving expenses. This overlap spike is temporary in nature, as reflected in the \$2.2M reduction anticipated in 2020. After accounting for 2019 actuals, the revised reduction is anticipated to be \$2.6M in 2020.

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There is also a reduction in utility costs in 2020 due to the net metered solar arrays at the new facilities, which help offset utility costs. However, these savings will themselves be offset by substation rental charges payable to HONI, as discussed in section 2.3 above.



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1 3.8. FINANCE

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2 The Finance program costs consist primarily of salaries and benefits relating to functions such

3 as accounts receivable and payable, capital asset accounting, banking, audit, budget and

4 accounting support, and financial reporting. Compensation is the main cost driver of the

5 program, however headcount has remained steady over the past four years.

7 The \$0.9M, or 23%, cost reduction in 2019 vs. 2018 (which has been updated to \$0.7M, or 17%,

8 after accounting for 2019 actuals) is attributable to SLA Reclassification, as explained in section

9 2.8 above. Many Finance employees provide services to affiliates. Had this reduction not

10 occurred, 2019 Finance costs would have been \$3.8M. When taking 2019 actuals into account,

11 Finance costs would have been \$4.0M. This latter figure would have nevertheless still

12 represented a cost reduction from 2018 due to the successful execution of various productivity

13 initiatives and an enduring commitment to cost control.

15 Finance program costs in 2019, 2020, and 2021 include cost-saving impacts relating to the

16 elimination of external support for cheque payment processing. The volume of cheques and

7 reduction in equipment and technology costs have proven that internal payment processing will

18 be less costly.

20 When excluding the aforementioned SLA reclassification, the CAGR for Finance program costs

21 between 2016 and 2021 is 1%.

23 3.9. HUMAN RESOURCES & TRAINING

- Included in the Human Resource & Training program are costs pertaining to the provision of HR
- 25 support, talent development, trades-specific training, labour relations legal costs, and payroll
- 26 administration costs.

28 Spending has been relatively steady in this program. The drop, as submitted in the utility's

29 original Application, in 2019 of \$0.5M, or 12% (which has been updated to a drop of \$0.8M, or



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1 19% after accounting for 2019 actuals) is connected with SLA Reclassifications, as explained in

2 section 2.8 above. All variances are below the materiality threshold.

3

4 3.10. INFORMATION MANAGEMENT AND TECHNOLOGY

5 The Information Management and Technology ("IM&T") program is comprised of compensation 6 and benefits and externally-sourced operating costs to deliver services relating to IT

7 Infrastructure, including Helpdesk Support, Application Support, Data Management, Information

8 Management, IT Security (cybersecurity), and IT Project Planning. As described in Exhibit

9 1-1-13: Productivity and Continuous Improvement Initiatives, many technology and automation

0 initiatives have been implemented since 2016, which has helped to cascade efficiency savings

11 throughout other programs across Hydro Ottawa.

12

The \$2.4M, or 29%, increase in 2018 vs. 2017 is largely explained by post-go-live activities associated with the Enterprise Resource Planning ("ERP") upgrades and Human Resource Capital (i.e. Workday) system implementation completed at the end of 2017. More specifically, in 2018, following a stabilization period, the incorporation of additional features and modules into the ERP and Workday systems led to further automation of business processes and thus leveraged the previous year's investments.

19

The decrease in 2019 of \$0.9M, or 8%, is connected with SLA Reclassifications, as explained in section 2.8 above. The increase in 2020 vs. 2019, as submitted in the utility's original Application, is \$1.4M, or 14% (which has been updated to an increase of \$2.1M, or 22% after taking 2019 actuals into account). This increase is primarily due to a one-time termination fee to cancel the use of certain strands under the dark fibre lease. Beginning in 2022, Hydro Ottawa will no longer lease dark fibre. This will yield annual IM&T operating cost savings of \$1.1M (please see section 2.6 for additional details). The one-time termination fee was removed from the 2021 budget. These two reductions explain the budget reduction in 2021.



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1 **3.11**. **METERING**

- 2 Metering program costs are comprised of the costs of operating and maintaining Hydro Ottawa's
- 3 meter fleet. Activities include, but are not limited to, testing and inspections, cross readings and
- 4 investigations, and field retrieval. Compensation is the main cost driver in the program.

5

- 6 Overall program costs have remained fairly stable. However, there were some temporary cost
- 7 reductions in 2018 and 2019 which were primarily driven by timing differences between
- 8 employee departures and replacements. None of the variances exceed the materiality
- 9 threshold. The overall CAGR of the Metering program over the 2016-2021 timeframe is 2.9%.

10

11 3.12. REGULATORY AFFAIRS

- 12 Included in Regulatory Affairs are compensation and benefits costs related to overseeing the
- 13 implementation of OEB-approved distribution rates and charges, preparation of distribution rate
- 14 applications, regulatory and compliance reporting, policy research and analysis, public policy
- 15 engagement, load forecasting, cost allocation, and rate design. In addition, OEB fees represent
- 16 approximately 50% of total program costs.

17

- 18 In 2021, there is an increase of \$0.7M. This is attributable, in part, to an increase in Regulatory
- 9 Memberships to reflect the actual costs of updated OEB cost assessments, as the
- 20 previously-used variance account will no longer apply during the 2021-2025 rate term (see
- 21 section 2.4 above). In addition, the preparation and adjudication costs associated with this
- 22 Application will start being expensed in 2021.

23

- 24 Overall, the CAGR for the Regulatory Affairs program over the 2016-2021 timeframe is
- 25 expected to be 8.1%.

26

27 3.13. SAFETY, ENVIRONMENT AND BUSINESS CONTINUITY

- 28 Included in the Safety, Environment and Business Continuity program are costs pertaining to
- 29 Distribution Environmental Programs and Flame Resistant Clothing for employees. Outside
- 30 services for environmental remediation make up approximately 30% of the annual budget.



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1 The program experienced large increases over the past few years, with a CAGR of 12.7%. This 2 was driven by the following:

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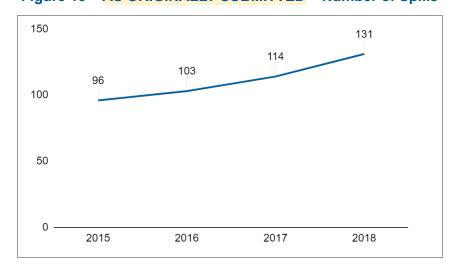
1415

16

- Increased environmental remediation costs due to proactive inspections of assets using infrared scanning. These inspections identify small spills/leaks before they cause greater impacts and potentially affect distribution system reliability. The number of events reported from 2015-2018 increased from 96 to 131. The associated cost increases of \$0.4M in 2018 and \$0.5M in 2019 are temporary increases and are expected to decrease in 2020 by \$0.8M when Hydro Ottawa's infrared scanning cycle is completed. After accounting for 2019 actuals, the associated cost increase for 2019 has been updated to \$0.6M. This is expected to decrease in 2020 by \$0.9M, when Hydro Ottawa's infrared scanning cycle is completed.
- Costs of approximately \$1.0M associated with the provision of Flame Resistant Clothing, as outlined in the collective agreement with the IBEW, were previously decentralized under other programs. In 2018, these costs were centralized and moved into this program in order to provide greater management oversight and control, and to assist with the administration of the online ordering system.



Figure 13 - AS ORIGINALLY SUBMITTED - Number of Spills

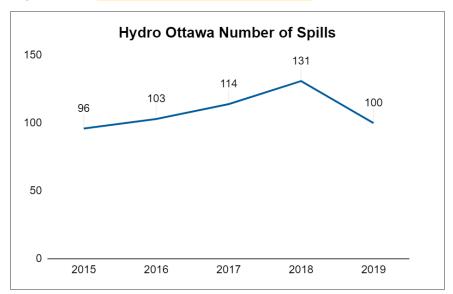


3

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Figure 13 - UPDATED FOR 2019 ACTUALS - Number of Spills



6

5

7 3.14. SUPPLY CHAIN

- 8 Included in the Supply Chain program are costs pertaining to the delivery of procurement and
- 9 warehouse functions. This is achieved through the administration of procurement policies,



3

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- 1 procurement of all products and services acquired by the utility, and management of the
- 2 inventory and equipment used to construct and maintain Hydro Ottawa's distribution assets.

4 Over the 2016-2021 period, CAGR for this program is expected to be 3.2%. There are no

5 variances above the materiality threshold.

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UPDATED - Appendix 2-JB Recoverable OM&A Cost Driver Table^{1,3}

OM&A (\$Millions)	Y	t Rebasing ear (2016 Actuals)	2	2017 Actuals	2018 Actuals	2	2019 Actuals	20:	20 Bridge Year	20	21 Test Year
Reporting Basis		MIFRS		MIFRS	MIFRS		MIFRS		MIFRS		MIFRS
Opening Balance ²	\$	83.1	\$	82.6	\$ 82.2	\$	86.8	\$	83.1	\$	91.9
Labour Compensation and Benefits			\$	(0.2)	\$ 3.3	\$	(1.9)	\$	4.1	\$	2.0
Proactive and Reactive Distribution System Maintenance			\$	0.1	\$ 0.5	\$	-	\$	0.4	\$	0.3
Facilities, Insurance, and Fuel			\$	0.1	\$ 0.3	\$	3.4	\$	(2.0)	\$	0.2
OEB Fees and CDM Allocation			\$	(0.1)	\$ -	\$	0.2	\$	0.2	\$	0.7
Contact Center, Postage, Bad Debt			\$	0.3	\$ (1.0)	\$	(0.7)	\$	0.8	\$	-
Dark Fiber fees			\$	(0.1)	\$ -	\$	0.1	\$	1.0	\$	(1.7)
Technology			\$	0.8	\$ 0.4	\$	0.5	\$	1.3	\$	0.9
SLA Cost Reclassification			\$	-	\$ -	\$	(3.2)	\$	(0.7)	\$	(0.1)
Others	\$	(0.5)	\$	(1.3)	\$ 1.1	\$	(2.1)	\$	3.7	\$	(0.3)
Closing Balance ²	\$	82.6	\$	82.2	\$ 86.8	\$	83.1	\$	91.9	\$	93.9

Notes:

- 1 For each year, a detailed explanation for each cost driver and associated amount is requied in Exhibit 4.
- 2 Opening Balance for "Last Rebasing Year" (cell B15) should be equal to the OEB-Approved amount. For purposes of assessing incremental cost drivers, the closing balance for each year becomes the opening balance for the next year.
- 3 If it has been more than four years since the applicant last filed a cost of service application, additional years of historical actuals should be incorporated into the table, as necessary, to go back to the last cost of service application. If the applicant last filed a cost of service application less than four years ago, a minimum of three years of actual information is required.



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UPDATED WORKFORCE STAFFING AND COMPENSATION

2

1

INTRODUCTION 3 1.

- This Schedule, in tandem with Attachments A through E, provides detailed information on Hydro
- Ottawa's strategies and approach to ensuring operational capacity and capability to safely and
- efficiently:

7

- 8 maintain and enhance the reliability of the electricity distribution system;
- 9 execute its comprehensive asset management plan and planned infrastructure renewal;
- 10 respond to increasing legislative and regulatory requirements;
- 11 address customer growth and nurture an evolving customer relationship;
- continue to manage the effects of its aging workforce; and 12
 - leverage technological advancements, and an ever-changing business landscape.

14

13

15 **2**. **WORKFORCE PLANNING AND STAFFING**

23 2020, will result in exactly 65 trades hires over this period.

16 In its 2016-2020 Custom Incentive Rate-Setting application, Hydro Ottawa outlined how it would attract and retain a highly skilled, properly trained, and knowledgeable workforce. More specifically, Hydro Ottawa reviewed the need to replenish its trades workforce and the proactive strategies it would employ to mitigate the ongoing risk of an insufficient talent pipeline. By leveraging workforce planning, integrated within its Talent Management Framework, Hydro Ottawa's workforce modeling forecasted that over the 2015-2020 period there would be a requirement for 65 trades hires.² The actual hiring from 2015-2019, alongside planned hiring for

- 25 As outlined in Attachment 4-1-5(B): Workforce Planning Strategy, as Hydro Ottawa moves from
- 26 2021 to 2025, its workforce planning is focused on sustaining rather than replenishing its trades

²⁷ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April

<sup>28 29, 2015).
29 &</sup>lt;sup>2</sup> Workforce modeling is primarily used at Hydro Ottawa to forecast the supply of labour in relation to operational



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workforce, replacing mid-level experienced front-line supervisors/managers and responding to the changing skill sets required in light of the technological innovations and digital transformation in the electricity sector.

4

Through its workforce modeling, Hydro Ottawa continues to identify gaps in its trades workforce for the 2021-2025 period. However, these projections are substantially less than those of the 2015-2020 period. This is, generally, as a result of demographics, access to contracted services, and a focus on more efficient and innovative ways of working. Of significance during this period will be the focus on replenishing the Hydro Ottawa people leader pipeline due to retirements, through succession planning, strategic external hiring, and leadership and management initiatives. Furthermore, during this time, the emphasis on the demand for new skill sets – and in some cases the creation of entirely new roles as a result of technological innovations and digital transformation – will require diverse responses in the form of training, hiring, and contracting for those skill sets.

15

To ensure that planned apprenticeship investments and hiring remain prudent, and to limit overall headcount increases within the organization from 2021-2025, Hydro Ottawa continues to base forecasted hiring on the following principles:

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- Increase overall productivity to ensure greater availability of productive time, while also
 establishing initiatives to gain efficiencies that increase the quality of the time worked;
- Hire apprentices and fill other positions by using vacancies as they become available, including the redistribution of vacancies from support functions to the trades;
- Where available in the labour market, attract and hire journeypersons to fill vacancies, with the aim of reducing the overall required training investment in apprenticeships and leverage qualified resources with a shorter lead time to achieve maximum productivity;
- Balance hiring with the appropriate use of overtime to supplement labour gaps, and continue to leverage contracted services where cost-effective and available to meet demand; and



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• Increase the efficiency of work through innovative practices and the introduction of new technologies and automation.

234

1

3. MAINTAINING A SAFE WORK ENVIRONMENT

As outlined in Attachment 4-1-5(D): Health, Safety and Environment Compliance and Sustainability, Hydro Ottawa has adopted a best practice, continual improvement approach in relation to the following: (i) meeting legislative and regulatory requirements in the areas of health, safety, and environment; and (ii) maintaining standards of performance relative to risks associated with its ongoing business activities. Since 2008, Hydro Ottawa has successfully maintained registration of its integrated health, safety, and environmental management system to the International Organization for Standardization ("ISO") 14001 and the Occupational Health and Safety Assessment Series ("OHSAS") 18001. The Occupational Health, Safety and Environmental ("OHSE") management system has been updated to meet the requirements of the new ISO environmental standard in 2018, and preparations are underway to transition from the current OHSAS 18001 health and safety specifications to the new ISO 45001 health and safety standard in 2020.

17

With its younger workforce, as described in Attachment 4-1-5(B): Workforce Planning Strategy, Hydro Ottawa has increased the number of safety inspections, jobsite coaching, pre-construction meetings, and independent reviews of work in recent years, in order to mitigate safety risks.

22

Additionally, Hydro Ottawa ensures robust due diligence in relation to contractor safety and performance through a partnership with a contractor management firm, which carries out comprehensive and more cost-effective contractor pre-qualification and compliance monitoring.

26

27 4. COMPENSATION AND HEADCOUNT

28 Hydro Ottawa's compensation philosophy and associated compensation components are 29 premised on attracting and retaining a highly skilled workforce and on supporting a



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performance-driven work culture. This is achieved by appropriately and fairly rewarding performance in the achievement of the objectives identified in the utility's Strategic Direction, and in accordance with position competencies and the organization's values, while at the same time controlling total compensation costs. More details on Hydro Ottawa's approach to total compensation – including salaries, incentive-based pay for senior employees only, insured benefit plans, pension plan, premiums and allowances – are outlined in UPDATED Attachment 4-1-5(A): Employee Compensation Strategy, as well as in Attachment 4-1-5(E): Actuarial Report regarding the utility's limited future benefit costs.

9

As provided in Attachment 1-1-12(G): Compensation Benchmarking Study, Hydro Ottawa engaged Mercer Canada to conduct a benchmarking study of its total compensation, including salaries, target total cash compensation, and benefit and pension contributions against both general and industry (utility) market comparators, where available. Jobs that are core to the operational business and key professional jobs were all found to be very well aligned with the market comparators. Some positions, generally unionized support roles, were found to be comparable to the utility market comparators although higher than the general industry market comparators.

18

The study also found that Hydro Ottawa's employer paid benefits, which include insurance and wellness benefits and pension contributions, are generally aligned with what is typically seen in the market – and more specifically, in the Ontario Public Sector.

22

Since 2016, Hydro Ottawa's total number of permanent full-time equivalents ("FTEs") has remained relatively static, with the same forecasted to 2021. Management permanent FTEs are decreasing and non-management permanent FTEs are slightly increasing. This has been realized while simultaneously replenishing and continuing to sustain the trades workforce, by using vacancies as they become available and focusing on productivity and efficiency and effectiveness of operations.



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- 1 Hydro Ottawa has been increasing its usage of a temporary workforce, which provides it with
- 2 more flexibility to address seasonal and other workloads, and can be more easily adjusted
- 3 upwards or downwards, as required. Hydro Ottaway's forecast to 2021 continues this approach,
- 4 allowing the utility to contain compensation costs.

5

6 As a result of prudently managing FTEs and compensation costs, Hydro Ottawa's actual and 7 forecasted annual average increase to total compensation is 2.8 % 2.5% from 2016-2021.

8

9 UPDATED Attachment 4-1-5(C): OEB Appendix 2-K - Employee Costs summarizes Hydro Ottawa's historical and forecasted FTEs and compensation costs, and indicates the following:

11 12

13

14

18

- Between 2016 and 2018, there was a decrease in FTEs. The 2019-2021 forecast shows an initial increase in the total number of FTEs between 2018 and 2019, and then a decrease in the total number of FTEs out to 2021; and
- The 2019 actuals confirm a smaller increase in the total number of FTEs between 2018 and 2019, with the updated forecast showing an increase for 2020, and then a decrease in the total number of FTEs in 2021; and
 - Total compensation costs are expected to increase on average by 2.5% per annum, from approximately \$67.4M \$68.4M in 2016 to \$77.6M in 2021.



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UPDATED EMPLOYEE COMPENSATION STRATEGY

2

1

3 1. INTRODUCTION

4 Hydro Ottawa's compensation philosophy and associated compensation components are 5 premised on attracting and retaining a highly skilled workforce and on supporting a 6 performance-driven work culture. This is achieved by appropriately and fairly rewarding 7 performance in the achievement of the objectives identified in the utility's Strategic Direction, 8 and in accordance with position competencies and the utility's values, while at the same time 9 controlling total compensation costs.

10

11 2. TOTAL COMPENSATION

Hydro Ottawa's approach to total compensation aligns with the utility's compensation philosophy and consists of the following major components which reinforce the total value proposition: salaries, incentive-based pay for senior employees only, insured benefit plans, pension plan, premiums, and allowances.

16

17 2.1. COMPENSATION BENCHMARKING STUDY

As provided in Attachment 1-1-12(G), Hydro Ottawa engaged Mercer Canada to conduct a benchmarking study of the utility's total compensation, including salaries, target total cash compensation, and benefit and pension contributions against both general and industry (utility) market comparators, where available. Competitiveness of salaries and target total cash compensation was defined as being within +/- 10% of P50 of each market comparator.¹

23

The study reviewed 15 jobs, including those core to the business, as well as technical, professional, and para-professional roles that support the business. The jobs included in the study are representative of both categories of positions/employees (management and non-management), which are further defined in section 3 below. Five management jobs and 10 non-management jobs at different levels of each category were reviewed.

. .

²⁹ ¹ "P50" refers to the market median job rate.



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- 1 The jobs that are core to the operational business (e.g. Manager, Distribution Operations;
- 2 Supervisor, Distribution Operations; Professional Engineer; and the trades jobs of Power Line
- 3 Technician and System Operator) were all found to be very well aligned with the utility market
- 4 comparators. In the case of the Professional Engineer job, there was also alignment with the
- 5 general industry market comparators.

7 Some jobs, generally unionized support roles, were found to be higher than the general industry

- 8 market comparators, but in most cases within +/-10% of P50 of the utility market comparators.
- 10 Key professional roles such as Senior Procurement Agents, Management Accountants, and
- 11 Network Administrators were also found to be very well aligned with both the utility and general
- 12 industry market comparators.

9

13

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26

14 With respect to employer paid benefits, which include insurance and wellness benefits and

- 15 pension contributions, the study found that these offerings at Hydro Ottawa are generally
- aligned with what is typically seen in the market for non-executive employees. Specifically, when
- 17 compared to the Ontario Public Sector, where such benefits account for 20-22% of base salary,
- 18 Hydro Ottawa's benefits were found to be within 19-21% of base salary.

20 2.2. MERIT INCREASES

- 21 The salary structure for executive, management, and non-union employees consists of various
- 22 salary scales representing positions of similar scope and responsibility. A formalized point factor
- 23 system is in place to evaluate positions and determine the salary scale in which they are placed.
- 24 This ensures internal equity. Salary scales are reviewed every four years to ensure
- 25 competitiveness.
- 27 Employees are paid an annual salary within the salary scale based on education and
- 28 experience. Annual increases to salaries, within the salary scales, are merit-based and
- 29 determined by performance and contributions in the previous year. A robust performance



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1 management system is in place for this purpose. An overall performance rating is established

2 and a merit increase associated with the rating is provided. Performance and contributions are

3 directly tied to Hydro Ottawa's corporate performance scorecard, ensuring that the focus of this

4 workforce segment is aligned to the advancement of the utility's Strategic Direction.

5

6 In determining the appropriate merit increase associated with each performance rating, Hydro

7 Ottawa reviews the national, provincial, and local salary projections of major compensation

8 consulting firms, including those projections for the utility and broader public sectors, as well as

9 consumer price indices.

10

11 2.3. INCENTIVE-BASED PAY

Since 2008, only senior management employees have been eligible for an annual incentive-based pay as a component of their total cash compensation, which is expressed as a percentage of annual salary. These employees have a direct line-of-sight to the success of the utility's Strategic Direction. On average, 39 employees are eligible for incentive-based pay in any given year. After accounting for 2019 actuals, the number of employees eligible for incentive-based pay in any given year has been updated to an average of 40.

18

19 Incentive-based pay is derived from the achievement of corporate, divisional, and individual

20 priorities in the previous year, both financial and non-financial, and qualitative and quantitative.

21 These priorities are established each year and approved by the Board of Directors.

22 Non-financial priorities are designed to achieve continuous improvement in relation to Hydro

3 Ottawa's Strategic Direction. They include a number of strategic objectives focused on customer

4 service, operational and organizational efficiency and effectiveness, and service reliability.

25

26 Table 1 below demonstrates the variability in this component of total cash compensation as it

27 relates to the achievement of priorities.



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Table 1 – AS ORIGINALLY SUBMITTED – Average Annual Incentive-Based Pay

	2016 Historical	2017 Historical	2018 Historical	3-Year Average
Number of Employees	39	38	41	39
Average Amount	\$15,220	\$17,139	\$15,897	\$16,085

2

Table 1 – UPDATED FOR 2019 ACTUALS – Average Annual Incentive-Based Pay

	2017 Historical	2018 Historical	2019 Historical	3-Year Average
Number of Employees	38	41	41	40
Average Amount	\$17,139	\$15,897	\$16,151	\$16,396

4

2.4. COLLECTIVE AGREEMENT

5 The International Brotherhood of Electrical Workers ("IBEW"), Local 636 represents Hydro

7 Ottawa's unionized employees. This includes the company's trades, technical, clerical, and

8 administrative employees.

9

10 The current collective agreement is in effect from April 1, 2017 until March 31, 2021. The

11 collective agreement provides for negotiated wage increases and employee step progressions.

12 Negotiated wage increases are 2.0% for 2017, 2.10% for 2018, 2.10% for 2019, and 2.2% for

13 2020. The wage increases are on average 22% lower than the increases from the previous

14 four-year collective agreement. Nominal increases to certain premiums and allowances were

15 also negotiated, and spread-out over the collective agreement's four-year term.

16

17 A number of labour efficiencies were achieved during this most recent round of collective

B bargaining, with some directly and indirectly related to total compensation. These include the

19 expansion of normal hours of operation, reduction in hours of rest time when employees work

20 overnight, and a simplified process for the re-assignment of employees to a different work

21 location for training purposes.



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1 2.5. PENSION PLAN

Hydro Ottawa employees are part of the Ontario Municipal Employees Retirement System ("OMERS"), a multi-employer, contributory, defined-benefit pension plan established by the Province for employees of municipalities, local boards, and school boards in Ontario. Pension benefits are determined by a formula based on the highest consecutive five-year average of contributory earnings and years of service. Both participating employers and participating employees are required to make equal contributions to the plan based on the participating employees' contributory earnings.

9

Employers and employees that are members of the OMERS pension plan contribute a lesser percentage on earnings received up to the annual Yearly Maximum Pensionable Earnings ("YMPE"), and a higher percentage on earnings above the YMPE. The YMPE is equal to the Canada Pension Plan ("CPP") earnings limit, as the OMERS pension plan is designed to work together with the CPP to provide a stable retirement income.

15

16 Table 2 below summarizes Hydro Ottawa's historical and forecasted contribution rates to OMERS from 2016-2021.



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Table 2 – AS ORIGINALLY SUBMITTED – OMERS Contribution Rates (2016-2021)

	YMPE	Below YMPE	Above YMPE
2016 Historical	\$54,900	9.0%	14.6%
2017 Historical	\$55,300	9.0%	14.6%
2018 Historical	\$55,900	9.0%	14.6%
2019 Bridge	\$57,400	9.0%	14.6%
2020 Bridge	\$60,100	9.0%	14.6%
2021 Test	\$60,900	9.0%	14.6%

2

Table 2 – UPDATED FOR 2019 ACTUALS – OMERS Contribution Rates (2016-2021)

	YMPE	Below YMPE	Above YMPE
2016 Historical	\$54,900	9.0%	14.6%
2017 Historical	\$55,300	9.0%	14.6%
2018 Historical	\$55,900	9.0%	14.6%
2019 Historical	\$57,400	9.0%	14.6%
2020 Bridge	\$60,100	9.0%	14.6%
2021 Test	\$60,900	9.0%	14.6%

1

5 In an effort to reduce the funding deficit after the 2008 global economic downturn, OMERS

6 contribution rates increased for both the employer and employee portions in 2012 and 2013.

7 Due to better returns in 2013, contribution rates remained unchanged from 2014-2019. OMERS

8 has recently confirmed that there will be no changes to the contribution rates for 2020. Hydro

9 Ottawa has also forecasted no change in contribution rates for 2021. By 2022, OMERS

10 contribution rates will have remained static for eight years.

11

12 For 2022 onwards, Hydro Ottawa, with the assistance of actuaries from Mercer Canada, has

13 forecasted a 0.65% contribution rate increase, both below and above the annual YMPE, for both

14 the employer and employee portions. This forecast is based on the OMERS Sponsors

15 Corporation's Funding Management Strategy and the plan's funded ratios, as of December 31,

16 2018.



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1 2.6. INSURED BENEFITS

- 2 Hydro Ottawa's insured benefit plans provide employees with income security and protection
- 3 from catastrophic and life events. Insured benefits coverage is provided to active full-time
- 4 employees in the following areas:

5

8

- Health, including vision care, prescription drugs, and paramedical services;
- Dental, including major dental and orthodontics services;
 - Long-term disability benefits;
- Short-term disability benefits; and
- 10 Life insurance.

11

- As part of the most recent round of collective bargaining in 2017, no changes were made to the provisions of the insured benefit plans for the four-year term of the collective agreement. As a result, all provisions of the insured benefit plans have remained static for all employee groups
- 15 during this time period.

16

17 Hydro Ottawa continues to benefit from its current cost containment measures such as 18 reasonable and customary limitations and generic substitution. Most recently, a drug risk 19 management program was introduced whereby new or existing drugs with new treatment 20 indications are reviewed by the benefit plan insurer to ensure appropriateness.

- 22 For 2020 onwards, Hydro Ottawa has forecasted increases in benefit costs by using the 2019
- 23 benefit costs as a base and applying assumptions regarding anticipated rate increases by
- 24 benefit. These assumptions are based on Mercer's 2019 Anticipated Benefit Costs report (dated
- 25 October 2018) and the expected salary increase as per the current collective agreement with
- 26 the IBEW.



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1 2.7. POST-RETIREMENT BENEFITS

2 Hydro Ottawa's post-retirement benefits consist of life insurance and a small retirement grant for

3 eligible employees primarily linked to positive attendance at work.

4

5 Hydro Ottawa completes a full actuarial valuation of the future value of the post-retirement

6 benefits every three years, which is consistent with industry standards. In the interim years, an

7 extrapolation is completed to determine if there has been a material change from the previous

8 year.

9

10 The most recent actuarial valuation was performed as at December 31, 2016, with an actuarial

11 extrapolation performed as at December 31, 2018 by Eckler Consultants & Actuaries.² The

12 valuation determined that the accrued post-retirement life insurance obligation decreased from

13 2017-2018, which is primarily attributable to an increase in the discount rate used in 2018. The

14 accrued retirement grant amount decreased from 2017-2018, which is attributable to the

15 retirement of employees in 2017 that were paid their retirement grant, thereby reducing the

16 utility's future obligations.

17

18 Hydro Ottawa has taken steps to contain its future benefit costs by limiting the type, scope, and

19 applicability of post-retirement benefits.

20

21 2.8. REGULATORY TREATMENT OF PENSION AND OTHER POST-EMPLOYMENT

22 **BENEFITS**

On September 14, 2017, the OEB issued its final report on the regulatory treatment of pension

24 and other post-employment benefit ("OPEB") costs establishing the use of accrual accounting

25 as the default method on which to set rates for pension and other post-employment benefit

26 amounts in cost-based applications.3 Moreover, this report also provides for the establishment of

27 a variance account to track the difference between the forecasted accrual amount in rates and

²⁸ Please see Attachment 4-1-5(E): Actuarial Report.

²⁹ Ontario Energy Board, Report of the Board: Regulatory Treatment of Pension and Other Post-Employment Benefits

^{30 (}OPEBs) Costs, EB-2015-0040 (September 14, 2007).



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1 actual cash payment(s) made, with an asymmetric carrying charge in favour of ratepayers

2 applied to the differential.

3

4 Hydro Ottawa provides pension benefits for its employees through the OMERS Fund (the

5 "Fund"). Although the plan is a defined benefit plan, sufficient information is not available to

6 Hydro Ottawa to account for it as such because it is not possible to attribute the fund assets and

7 liabilities between the various employers who contribute to the Fund. As a result, Hydro Ottawa

8 accounts for the plan as a defined contribution plan, and contributions payable as a result of

employee service are expensed as incurred similar to short-term employee benefits.

10

1 Hydro Ottawa also provides other post-employment benefits such as life insurance and a

2 retirement grant. These plans provide benefits to certain employees when they are no longer

providing active service. Other post-employment benefits are recorded on an accrual basis. The

4 accrued benefit obligation and current service costs are calculated using the projected benefit

5 method prorated on service and based on assumptions that reflect Hydro Ottawa's best

6 estimates. Hydro Ottawa tracks the difference between the forecast accrual amount in rates and

17 actual cash payments in a variance account as set out in the OEB report.

18

19 Table 3 below outlines Hydro Ottawa's 2016-2021 Pension and OPEB amounts.



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Table 3 – AS ORIGINALLY SUBMITTED – Pension and OPEB Amounts (\$'000s)

	Historical			Bridge		Test
Pension and OPEB	2016	2017	2018	2019	2020	2021
Pension cost⁴	\$5,389	\$5,530	\$5,741	\$6,136	\$6,168	\$6,355
Future employee benefits cost ⁵	\$2,240	\$832	\$736	\$786	\$800	\$816
Cash paid ⁶	\$593	\$634	\$649	n/a	n/a	n/a

2

Table 3 – UPDATED FOR 2019 ACTUALS – Pension and OPEB Amounts (\$'000s)

	Historical				Bridge	Test
Pension and OPEB ⁷	2016	2017	2018	2019	2020	2021
Pension cost	\$5,389	\$5,530	\$5,741	\$5,720	\$6,168	\$6,355
Future employee benefits cost	\$2,240	\$832	\$736	\$1,232	\$800	\$816
Cash paid	\$593	\$634	\$649	\$717	n/a	n/a

4

5 3. **HEADCOUNT**

- 6 Hydro Ottawa has categorized employees/positions into two groups in calculating the total
- 7 full-time equivalents ("FTE"). These groups are comprised of full-time permanent equivalents
- 8 and temporary equivalents (which can be full-time or part-time), defined as follows:⁸

 ⁴ As noted above, pension contributions are expensed as incurred. With respect to the pension cost that is
 capitalized, this along with other employee benefits as described in this Schedule, are included on the capitalized
 labour line in UPDATED Attachment 2-4-5(A): OEB Appendix 2-D - Overhead Expense. Hydro Ottawa uses a
 blended labour rate and burden rates to do this allocation and therefore does not track each type of
 compensation-related expense charged to capital separately. The other capitalized OM&A amounts (Supply Chain,
 Supervisor, Engineering and Fleet) also include compensation, and as such, pension costs are also included on
 these lines.

⁵ As described above, Hydro Ottawa's other post-employment benefits are limited to life insurance and a retirement grant. The amount shown in Table 3 is the expense amount included in OM&A. Note that these costs are not included in the capitalized OM&A amounts discussed above, and therefore none of these amounts are capitalized. Although, not considering post-retirement, the non-vested sick leave as described in UPDATED Exhibit 4-1-4: Operations,

not considering post-retirement, the non-vested sick leave as described in UPDATED Exhibit 4-1-4: Operations,
 Maintenance and Administration Cost Drivers and Program Variance Analysis is also grouped in this analysis.

^{21 6} This represents the cash payments for other post-employment benefits as included on Hydro Ottawa's tax returns.

²² ⁷ Footnotes 4-6 likewise apply as descriptions for this updated version of the table.

Summer students and co-op students are not included, as these short-term hires are viewed as developmental in nature.



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- Management includes executives, directors, managers, supervisors, and senior professionals such as professional engineers.
 - Non-Management includes non-unionized professionals, such as engineers-in-training and executive assistants, and all employees who are represented by the IBEW.

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4

The tables below summarize Hydro Ottawa's actual FTEs for 2016, 2017, 2018, along with the forecasted FTEs for 2019, 2020 and 2021. Hydro Ottawa's FTE count is determined using standard methodology. For the 2016-2018 actuals, FTE is a calculated value derived from the total regular hours paid each year divided by the regular hours of work scheduled each year by a single employee in that group. For the 2019-2021 forecasts, FTE is calculated as all budgeted positions, adjusted for part-year budgeting for new positions. These tables have been revised due to a systemic error in spreadsheet templates which affected 2016, 2017, and 2018 actual FTE, Temporary Equivalents, and Compensation amounts.

14

After accounting for 2019 actuals, the updated versions of the tables below summarize Hydro Ottawa's actual FTEs for 2016, 2017, 2018, and 2019, along with the forecasted FTEs for 2020 and 2021. For the 2016-2019 actuals, FTE is a calculated value derived from the total regular hours paid each year divided by the regular hours of work scheduled each year by a single employee in that group. For the 2020-2021 forecasts, FTE is calculated as all budgeted positions, adjusted for part-year budgeting for new positions.

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22 3.1. FULL-TIME PERMANENT EQUIVALENTS

23 Table 4 below illustrates Hydro Ottawa's forecasted plan to stabilize its total number of 24 permanent full-time employees/positions.



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Table 4 – AS ORIGINALLY SUBMITTED – Number of Full-Time Permanent Equivalents

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	122.6	124.4	118.7	116.2	118.1	118.9
Non-Management	464.2	461.7	460.6	470.4	467.5	468.3
TOTAL	586.8	586.1	579.3	586.6	585.6	587.2

Table 4 – AS REVISED – Number of Full-Time Permanent Equivalents

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	122.6	124.4	118.7	116.2	118.1	118.9
Non-Management	464.7	462.3	461.1	470.4	467.5	468.3
TOTAL	587.3	586.7	579.8	586.6	585.6	587.2

Table 4 – UPDATED FOR 2019 ACTUALS – Number of Full-Time Permanent Equivalents

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	122.6	124.4	118.7	120.6	118.1	118.9
Non-Management	464.7	462.3	461.1	461.4	467.5	468.3
TOTAL	587.3	586.7	579.8	582.0	585.6	587.2

Since 2016, Hydro Ottawa's total number of permanent FTEs has remained relatively static with the same forecasted to 2021. Management permanent FTEs are decreasing and non-management permanent FTEs are slightly increasing. This has been realized while at the same time replenishing and continuing to sustain the trades workforce in accordance with Hydro Ottawa's Workforce Planning Strategy (which is appended to this Application as Attachment 4-1-5(B)). This has entailed using vacancies as they become available and focusing on productivity and efficiency and effectiveness of operations.

The slight increase in management FTEs reflected in the 2019 actuals is attributed to the filling of vacant positions, while Non-Management FTEs remained the same.



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1 3.2. TEMPORARY EQUIVALENTS

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2 Table 5 summarizes the number of actual and forecasted temporary equivalents from

- 3 2016-2021, which includes both temporary full-time and part-time employees. Hydro Ottawa has
- 4 been increasing its usage of a temporary workforce, which provides the utility with more
- 5 flexibility to address seasonal and other workloads, and can be more easily adjusted upwards or
- 6 downwards as required. Hydro Ottawa's 2019, 2020 and 2021 forecast continues this approach,
- 7 allowing the utility to contain compensation costs. This approach continues when accounting for
- 8 2019 actuals, as shown in the updated version of Table 5 below.

10 Table 5 – AS ORIGINALLY SUBMITTED – Number of Temporary Equivalents (Full-Time or Part-Time)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	1.2	1.9	1.4	3.6	5.5	3.0
Non-Management	17.7	15	18	35.0	31.4	25.4
TOTAL	18.9	16.9	19.4	38.6	36.9	28.4

Table 5 – AS REVISED – Number of Temporary Equivalents (Full-Time or Part-Time)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	3.6	3.3	2.1	3.6	5.5	3.0
Non-Management	20.1	21.6	22.8	35.0	31.4	25.4
TOTAL	23.7	24.9	24.9	38.6	36.9	28.4

Table 5 – UPDATED FOR 2019 ACTUALS – Number of Temporary Equivalents (Full-Time or Part-Time)

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	3.6	3.3	2.1	0.7	5.5	3.0
Non-Management	20.1	21.6	22.8	28.1	31.4	25.4
TOTAL	23.7	24.9	24.9	28.8	36.9	28.4

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1 3.3. FULL-TIME PERMANENT AND TEMPORARY EQUIVALENTS

2 Table 6 provides the total number of actual and forecasted permanent and temporary FTEs, and

3 demonstrates Hydro Ottawa's approach to continuing to manage its workforce and

4 compensation costs prudently.

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Table 6 – AS ORIGINALLY SUBMITTED – Number of Full-Time Equivalents (Permanent and Temporary)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	123.8	126.3	120.1	119.8	123.6	121.9
Non-Management	481.9	476.7	478.6	505.4	498.9	493.7
TOTAL	605.7	603.0	598.7	625.2	622.5	615.6

Table 6 – AS REVISED – Number of Full-Time Equivalents (Permanent and Temporary)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	126.3	127.8	120.8	119.8	123.6	121.9
Non-Management	484.8	483.9	483.9	505.4	498.9	493.7
TOTAL	611.1	611.7	604.7	625.2	622.5	615.6

Table 6 – UPDATED FOR 2019 ACTUALS – Number of Full-Time Equivalents (Permanent and Temporary)

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	126.3	127.8	120.8	121.3	123.6	121.9
Non-Management	484.8	483.9	483.9	489.4	498.9	493.7
TOTAL	611.1	611.7	604.7	610.7	622.5	615.6

14 Between 2016 and 2018, there was a decrease in the total number of FTEs predominantly as a

15 result of a decrease in management FTEs. The 2019-2021 forecast shows an initial increase in

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- 1 the total number of FTEs between 2018 and 2019, attributable mainly to an increase in the
- 2 usage of temporary employees as well as a slight increase in permanent non-management
- 3 FTEs. The total number of FTEs then decreases out to 2021.

4

- The 2019 actuals confirm a smaller increase in the total number of FTEs over 2018. An increase
- 6 in the total number of FTEs is forecasted for 2020 due mainly to increases in non-management
- 7 and temporary FTEs, with a subsequent decrease forecasted for 2021.

8

9 4. TOTAL COMPENSATION

- 10 Table 7 below summarizes Hydro Ottawa's historical and forecasted total compensation
- 11 including salary, wages, and benefits from 2016-2021. Hydro Ottawa's approach to prudently
- 12 managing FTEs and compensation costs, as outlined throughout this Attachment, has resulted
- 13 in an actual and forecasted annual average increase to total compensation of 2.8% 2.5% from
- 14 2016-2021.

- 16 The original version of Table 7 has been revised due to a systemic error in spreadsheet
- templates. In addition, Table 7 has been updated to account for 2019 actuals.



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1 Table 7 – AS ORIGINALLY SUBMITTED – Total Compensation (Salary, Wages, & Benefits)9

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	\$17,665,972	\$18,043,105	\$17,726,238	\$17,017,160	\$18,287,415	\$18,623,000
Non- Management	\$49,753,411	\$51,285,615	\$53,620,146	\$56,282,382	\$57,262,789	\$58,950,460
TOTAL	\$67,419,383	\$69,328,720	\$71,346,384	\$73,299,542	\$75,550,204	\$77,573,460

Table 7 – AS REVISED – Total Compensation (Salary, Wages, & Benefits)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	\$18,065,397	\$18,337,465	\$17,833,632	\$17,017,160	\$18,287,415	\$18,623,000
Non- Management	\$50,322,168	\$52,258,971	\$54,375,254	\$56,282,382	\$57,262,789	\$58,950,460
TOTAL	\$68,387,565	\$70,596,436	\$72,208,886	\$73,299,542	\$75,550,204	\$77,573,460

Table 7 – UPDATED FOR 2019 ACTUALS – Total Compensation (Salary, Wages, & Benefits)

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	\$18,065,397	\$18,337,465	\$17,833,632	\$17,871,017	\$18,287,415	\$18,623,000
Non- Management	\$50,322,168	\$52,258,971	\$53,375,254	\$54,331,711	\$57,262,789	\$58,950,460
TOTAL	\$68,387,565	\$70,596,436	\$72,208,886	\$72,202,728	\$75,550,204	\$77,573,460

8 4.1. 2016-2018 ACTUALS

- 9 The total compensation increase from 2016-2018 is largely due to step increases and annual
- 10 negotiated salary increases for unionized employees and annual merit increases for non-union
- 11 employees. It is also attributable to an increase in overtime costs in 2018, in connection with

 ⁹ Hydro Ottawa has completed UPDATED OEB Appendix 2-K - Employee Costs, which is included in this Application
 as Attachment 4-1-5(C). This footnote likewise applies to the revised and updated versions of Table 7.



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restoration activities following an ice storm in April, a wind storm in May, and tornadoes, high winds, and thunderstorms in September – all of which caused significant damage to the electricity grid. As noted in Table 4 above, given the decrease in management FTEs during this period, compensation for that group also decreased.

5

6 4.2. 2019-2021 FORECAST

Hydro Ottawa's total compensation forecast for 2019-2021 shows an average annual increase of 2.8% 2.5% over the three-year period. This trending is primarily based on the step increases and annual negotiated salary increases for unionized employees, together with the annual merit increase for management and non-union employees, as well as the forecasted increase in benefit costs. Total compensation costs have additionally been contained by the forecast of an overall flat number of permanent FTEs to 2021, supplemented by temporary FTEs, as required.

13

Actual total compensation for 2019 over 2018 remained relatively flat, showing a slight decrease. This is attributed to both a significant decrease in overtime and the ongoing use of a temporary workforce.

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UPDATED - Appendix 2-K Employee Costs

	Last Rebasing Year (2016 OEB Approved)	Last Rebasing Year (2016 Actuals)*	2017 Actuals*	2018 Actuals*	2019 Actuals	2020 Bridge Year	2021 Test Year		
Number of Employees (FTEs including Part-Time)1									
Management (including executive)	137.5	126.3	127.8	120.8	121.3	123.6	121.9		
Non-Management (union and non-union)	485.2	484.8	483.9	483.9	489.4	498.9	493.7		
Total	622.7	611.1	611.7	604.7	610.7	622.5	615.6		
Total Salary and Wages including Overtime and Incentive Pay									
Management (including executive)	\$ 15,648,115	\$ 14,750,453	\$ 14,853,666	\$ 14,403,208	\$ 14,372,286	\$ 14,528,292	\$ 14,687,744		
Non-Management (union and non-union)	\$ 42,110,915	\$ 40,801,567	\$ 42,319,931	\$ 43,996,434	\$ 43,696,400	\$ 45,426,991	\$ 46,496,513		
Total	\$ 57,759,030	\$ 55,552,020	\$ 57,173,597	\$ 58,399,642	\$ 58,068,686	\$ 59,955,283	\$ 61,184,257		
Total Benefits (Current + Accrued)									
Management (including executive)	\$ 3,954,359	\$ 3,314,944	\$ 3,483,799	\$ 3,430,424	\$ 3,498,731	\$ 3,759,123	\$ 3,935,256		
Non-Management (union and non-union)	\$ 10,230,894	\$ 9,520,601	\$ 9,939,040	\$ 10,378,820	\$ 10,635,311	\$ 11,835,798	\$ 12,453,947		
Total	\$ 14,185,253	\$ 12,835,545	\$ 13,422,839	\$ 13,809,244	\$ 14,134,042	\$ 15,594,921	\$ 16,389,203		
Total Compensation (Salary, Wages, & Benefits)									
Management (including executive)	\$ 19,602,474	\$ 18,065,397	\$ 18,337,465	\$ 17,833,632	\$ 17,871,017	\$ 18,287,415	\$ 18,623,000		
Non-Management (union and non-union)	\$ 52,341,809	\$ 50,322,168	\$ 52,258,971	\$ 54,375,254	\$ 54,331,711	\$ 57,262,789	\$ 58,950,460		
Total	\$ 71,944,283	\$ 68,387,565	\$ 70,596,436	\$ 72,208,886	\$ 72,202,728	\$ 75,550,204	\$ 77,573,460		

¹ If an applicant wishes to use headcount, it must also file the same schedule on an FTE basis.

^{*} As outlined in UPDATED Attachment 4-1-5(A) - Employee Compensation Strategy, revisions have been made to 2016, 2017 and 2018 actuals due to a systemic error in spreadsheet templates.



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UPDATED REGULATORY COSTS

2

1

Regulatory costs for Hydro Ottawa are included in the Uniform System of Accounts ("USofA")
4 5655, Regulatory Expenses and 5630, Outside Services Employed.¹ A summary of Regulatory
5 Expenses are shown in Table 1, as updated below. Please refer to UPDATED Attachment
6 4-2-4(A): Appendix 2-M - Regulatory Cost Schedule for further details.² Regulatory costs include
7 OEB cost assessments and licence fees, intervenor and other cost awards, professional

8 services (legal and consulting), and costs to publish public notices.

15 consultations that are set to impact Hydro Ottawa.

9

Regulatory costs are split between one-time and on-going costs. In light of the increases in total Regulatory Costs which Hydro Ottawa has seen, the budget for the 2021 Test Year is \$2.3M. The main driver of the increase in on-going costs relates to the annual assessment fees paid to the OEB. Additionally, consulting costs in 2020 and 2021 are forecasted to be higher than 2019, due to external expertise that will be sought on government, OEB, and industry policy

16

17 In 2016, the OEB revised its cost assessment model.³ As part of this change, the OEB established a variance account, Account 1508 Other Regulatory Assets, Sub-account OEB Cost 19 Assessment Variance, to capture the difference between the costs incurred as a result of the 20 new methodology and the costs which had already been built into a utility's rates. The variance 21 account was to be utilized until a utility's utility's rates were next rebased/reset.⁴

22

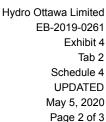
These revisions to the OEB's cost assessment model substantially increased Hydro Ottawa's allocation of the OEB's costs. For the OEB's April 2016 - March 2017 fiscal year, the OEB's cost allocation to the utility was \$1.4M, which represented an increase of 56% over the \$916K projection included in Hydro Ottawa's 2016 rebasing application.

²⁷ Prior to 2019, OEB Section 30 Costs were included in Account 5620, Office Supplies and Expense.

²⁸ Hydro Ottawa has made an adjustment to the Appendix to include a column for 2017 actuals.

Ontario Energy Board, Letter re: Revisions to the Ontario Energy Board Cost Assessment Model (February 9, 30 2016).

^{31 4} *Ibid*, page 2.





1 As a result, for purposes of this Application, the OEB Cost Assessment appears as an increase

2 in the 2021 Test Year. For additional information on the OEB Cost Assessment Variance

3 Account, please refer to **UPDATED** Exhibit 9-1-3: Group 2 Accounts.

4

5 Hydro Ottawa did not request one-time costs as part of its 2016-2020 Custom Incentive

6 Rate-Setting application.⁵ Accordingly, the one-fifth amortized portion of the \$0.5M one-time

7 costs included in the 2021 Test Year are incremental. The one-time costs include external

8 studies on core areas or topics that were commissioned to support, and in some cases guide,

9 Hydro Ottawa's Business Plan and requested revenue requirement. 6 Additionally, the one-time

10 costs include OEB hearing costs, intervenor costs, and legal costs set to be incurred in the

11 adjudication of this Application. Please refer to Exhibit 4-2-3: One-Time Costs for details related

12 to the amortized period.

13

4 The costs associated with the time spent by Hydro Ottawa's regulatory employees in preparing

5 this Application have not been included in USofA Accounts 5655, 5630, or 5620. These costs

6 are contained within the general operations, maintenance and administration budgets. The

7 costs associated with the time spent in preparing this Application by personnel from other

18 business units within the utility (such as finance, distribution asset management, treasury,

19 human resources, customer service, information technology, etc.) are likewise not included in

20 Accounts 5655 or 5630. Instead, these costs are contained within the respective budgets of

21 those business units.

,

⁵ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).

^{24 &}lt;sup>6</sup> The external studies commissioned in support of this Application are listed in UPDATED Exhibit 1-1-1: Table of

²⁵ Contents.



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Table 1 – AS ORIGINALLY SUBMITTED – Regulatory Cost Schedule (Summary)

	OEB Approved	Historical			Brid	dge	Test
	2016	2016	2017	2018	2019	2020	2021
Ongoing	\$1,365,775	\$1,251,499	\$1,125,122	\$1,112,169	\$1,036,124	\$1,255,162	\$1,843,850
1/5 of Total One-Time Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$462,398
TOTAL	\$1,365,775	\$1,251,499	\$1,125,122	\$1,112,169	\$1,036,124	\$1,255,162	\$2,306,248

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Table 1 – UPDATED FOR 2019 ACTUALS – Regulatory Cost Schedule (Summary)

	OEB Approved		Histo	Bridge	Test		
	2016	2016	2017	2018	2019	2020	2021
Ongoing	\$1,365,775	\$1,251,499	\$1,125,122	\$1,112,169	\$1,143,383	\$1,255,162	\$1,843,850
1/5 of Total One-Time Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$462,398
TOTAL	\$1,365,775	\$1,251,499	\$1,125,122	\$1,112,169	\$1,143,383	\$1,255,162	\$2,306,248

TO BE UPDATED AT THE DRAFT RATE ORDER STAGE

UPDATED - Appendix 2-M Regulatory Cost Schedule

	Regulatory Cost Category	USoA Account	USoA Account Balance	Last Rebasing Year (2016 OEB Approved)	Last Rebasing Year (2016 Actual)	2017 Actual	2018 Actual	2019 Actual	2020 Bridge Year	Annual % Change	2021 Test Year	Annual % Change
	(A)	(B)	(C)	(D)	(E)			(F)	(G)	(H)=[(G)-(F)]/(F)	(I)	(J) = [(I)-(G)]/(G)
	Regulatory Costs (Ongoing)											
1	OEB Annual Assessment	5655		916,311	984,177	917,112	916,311	917,111	917,162	0.01%	1,500,850	63.64%
2	OEB Section 30 Costs (OEB-initiated)	5655/5620			1,573	36,783	25,949	46,713	25,000	-46.48%	30,000	20.00%
3	Expert Witness costs for regulatory matters											
4	Legal costs for regulatory matters	5655		160,711	5,150		14,554	15,608	90,000	476.62%	90,000	0.00%
5	Consultants' costs for regulatory matters	5630		16,188	119,635	28,006		8,311	75,000	802.42%	75,000	0.00%
6	Operating expenses associated with staff resources allocated to regulatory matters											
7	Operating expenses associated with other resources allocated to regulatory matters 1											
8	Other regulatory agency fees or assessments	5655		140,843	140,964	143,222	155,355	155,639	148,000	-4.91%	148,000	0.00%
9	Any other costs for regulatory matters (please define)											
10	Intervenor costs	5655		131,722								
11	Include other items in green cells, as applicable											
12												
	Regulatory Costs (One-Time)											
1	Expert Witness costs											
2	Legal costs	5655									150,000	
3	Consultants' costs	5630									1,736,990	
4	Incremental operating expenses associated with staff resources allocated to this application.											
5	Incremental operating expenses associated with other resources allocated to this application. 1											
6	Intervenor costs	5655									150,000	
7	OEB Section 30 Costs (application-related)	5655									275,000	
8	Include other items in green cells, as applicable											
9												
10												
11												
29												
30												
1	Sub-total - Ongoing Costs 2		\$ -	\$ 1,365,775	\$ 1,251,499	\$ 1,125,122	\$ 1,112,169	\$ 1,143,383	\$ 1,255,162	9.78%	\$ 1,843,850	46.90%
2	Sub-total - One-time Costs 3		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 2,311,990	
3	Total		\$ -	\$ 1,365,775	\$ 1,251,499	\$ 1,125,122	\$ 1,112,169	\$ 1,143,383	\$ 1,255,162	9.78%	\$ 2,306,248	83.74%

Application-Related One-Time Costs	Total
Total One-Time Costs Related to Application to be Amortized over IRM Period	\$ 2,311,990
1/5 of Total One-Time Costs	\$ 462,398



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UPDATED DEPRECIATION, AMORTIZATION, DISPOSAL

2

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3 1. INTRODUCTION

- 4 In accordance with section 2.4.4 of the Chapter 2 Filing Requirements for Electricity Distribution
- 5 Rate Applications, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing
- 6 Requirements"), this Schedule seeks to demonstrate that Hydro Ottawa's proposed levels of
- 7 depreciation and amortization expenses appropriately reflect the useful lives of the utility's
- 8 assets and the OEB's accounting policies.

9

10 2. ANNUAL DEPRECIATION AND AMORTIZATION

- 11 In Tables 1 and 2 below, Hydro Ottawa provides details for depreciation by asset group for the
- 12 Historical Years 2016-2018, Bridge Years 2019-2020, and 2021-2025 Test Years. Both tables
- have been updated to account for 2019 actuals for the Historical Years 2016-2019, Bridge Year
- 14 2020, and Test Years 2021-2025.



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Table 1 – AS ORIGINALLY SUBMITTED – Depreciation Expense - Historical & Bridge Years (\$'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year
Land and Buildings	\$867	\$858	\$834	\$845	\$862
TS Primary Above 50	\$3,100	\$3,094	\$3,058	\$3,290	\$3,669
Distribution Stations	\$3,447	\$3,455	\$3,890	\$4,176	\$4,451
Poles, Wires	\$12,585	\$14,150	\$15,847	\$17,683	\$19,189
Line Transformers	\$2,269	\$2,513	\$2,766	\$3,008	\$3,188
Services and Meters	\$4,573	\$5,803	\$6,328	\$6,587	\$6,961
General Plant	\$2,286	\$2,240	\$2,233	\$3,652	\$3,821
Equipment	\$2,611	\$3,052	\$3,375	\$4,069	\$4,194
IT Assets	\$9,207	\$8,036	\$10,369	\$7,921	\$8,230
Other Distribution Assets	\$758	\$724	\$826	\$1,230	\$1,247
Sub-Total	\$41,703	\$43,925	\$49,526	\$52,460	\$55,812
Contributions and Grants	\$(1,622)	\$(2,262)	\$(2,950)	\$(3,984)	\$(5,089)
TOTAL ¹	\$40,081	\$41,663	\$46,576	\$48,476	\$50,723

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 $^{^{4}\,\,}$ Totals may not sum due to rounding.



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Table 1 – UPDATED FOR 2019 ACTUALS – Depreciation Expense - Historical & Bridge Years (\$'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year
Land and Buildings	\$867	\$858	\$834	\$839	\$862
TS Primary Above 50	\$3,100	\$3,094	\$3,058	\$3,328	\$3,669
Distribution Stations	\$3,447	\$3,455	\$3,890	\$4,130	\$4,451
Poles, Wires	\$12,585	\$14,150	\$15,847	\$17,603	\$19,189
Line Transformers	\$2,269	\$2,513	\$2,766	\$3,024	\$3,188
Services and Meters	\$4,573	\$5,803	\$6,328	\$6,861	\$6,961
General Plant	\$2,286	\$2,240	\$2,233	\$3,778	\$3,821
Equipment	\$2,611	\$3,052	\$3,375	\$4,129	\$4,187
IT Assets	\$9,207	\$8,036	\$10,369	\$7,757	\$8,230
Other Distribution Assets	\$758	\$724	\$826	\$1,220	\$1,236
Sub-Total	\$41,703	\$43,925	\$49,526	\$52,667	\$55,793
Contributions and Grants	\$(1,622)	\$(2,262)	\$(2,950)	\$(3,767)	\$(5,089)
TOTAL ²	\$40,081	\$41,663	\$46,576	\$48,900	\$50,704

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 $^{^{4}\,\,^{2}}$ Totals may not sum due to rounding.



Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 3 Schedule 1 UPDATED May 5, 2020 Page 4 of 15

Table 2 – AS ORIGINALLY SUBMITTED – Depreciation Expense - Test Years (\$'000s)

Asset Group	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
Land and Buildings	\$878	\$994	\$1,055	\$1,080	\$1,107
TS Primary Above 50	\$3,758	\$4,360	\$4,673	\$4,811	\$5,003
Distribution Stations	\$4,463	\$4,700	\$4,863	\$5,001	\$5,417
Poles, Wires	\$20,986	\$22,723	\$24,323	\$25,834	\$27,170
Line Transformers	\$3,406	\$3,638	\$3,855	\$4,056	\$4,226
Services and Meters	\$6,818	\$6,367	\$6,138	\$6,111	\$6,332
General Plant	\$4,209	\$5,136	\$5,152	\$5,179	\$5,222
Equipment	\$4,101	\$4,742	\$5,233	\$5,239	\$5,121
IT Assets	\$9,191	\$10,779	\$11,237	\$11,591	\$13,007
Other Distribution Assets	\$1,341	\$1,432	\$1,419	\$1,228	\$1,227
Sub-Total	\$59,150	\$64,873	\$67,948	\$70,128	\$73,832
Contributions and Grants	\$(6,700)	\$(8,012)	\$(8,806)	\$(9,417)	\$(9,806)
TOTAL ³	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027

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 $^{^{\}rm 3}$ Totals may not sum due to rounding.



Table 2 – UPDATED FOR 2019 ACTUALS – Depreciation Expense - Test Years (\$'000s)

Asset Group	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
Land and Buildings	\$878	\$994	\$1,055	\$1,080	\$1,107
TS Primary Above 50	\$3,758	\$4,360	\$4,673	\$4,811	\$5,003
Distribution Stations	\$4,463	\$4,700	\$4,863	\$5,001	\$5,417
Poles, Wires	\$20,986	\$22,723	\$24,323	\$25,834	\$27,170
Line Transformers	\$3,406	\$3,638	\$3,855	\$4,056	\$4,226
Services and Meters	\$6,818	\$6,367	\$6,138	\$6,111	\$6,332
General Plant	\$4,209	\$5,136	\$5,152	\$5,179	\$5,222
Equipment	\$4,063	\$4,693	\$5,196	\$5,202	\$5,085
IT Assets	\$9,191	\$10,779	\$11,237	\$11,591	\$13,007
Other Distribution Assets	\$1,262	\$1,321	\$1,330	\$1,138	\$1,137
Sub-Total	\$59,033	\$64,711	\$67,822	\$70,002	\$73,706
Contributions and Grants	\$(6,700)	\$(8,012)	\$(8,806)	\$(9,417)	\$(9,806)
TOTAL⁴	\$52,333	\$56,699	\$59,015	\$60,585	\$63,900

3 For detailed depreciation and amortization expenses, please see the following Attachments:

- Attachment 4-3-1(B): Appendix 2-C: 2016 Depreciation and Amortization Expense
- Attachment 4-3-1(C): Appendix 2-C: 2017 Depreciation and Amortization Expense
 - Attachment 4-3-1(D): Appendix 2-C: 2018 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(E): Appendix 2-C: 2019 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(F): Appendix 2-C: 2020 Depreciation and Amortization

 Expense
- UPDATED Attachment 4-3-1(G): Appendix 2-C: 2021 Depreciation and Amortization

 Expense

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^{14 &}lt;sup>4</sup> Totals may not sum due to rounding.



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- UPDATED Attachment 4-3-1(H): Appendix 2-C: 2022 Depreciation and Amortization
 Expense
- UPDATED Attachment 4-3-1(I): Appendix 2-C: 2023 Depreciation and Amortization
 Expense
- UPDATED Attachment 4-3-1(J): Appendix 2-C: 2024 Depreciation and Amortization
 Expense
- UPDATED Attachment 4-3-1(K): Appendix 2-C: 2025 Depreciation and Amortization 8 Expense

9

10 3. DISPOSITIONS BY ASSET GROUP

- 11 In Tables 3 and 4 below, Hydro Ottawa provides details of amortization related to disposals by
- 12 asset group for the Historical Years (2016-2018), Bridge Years (2019 and 2020), and Test Years
- 13 (2021-2025).

- 15 Table 3 has been updated to account for 2019 actuals, such that it provides details of
- amortization related to disposals by asset group for the Historical Years (2016-2019) and Bridge
- 17 Year (2020).



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Table 3 – AS ORIGINALLY SUBMITTED – Disposals - Historical Years (\$'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year
Land and Buildings	\$(1)	\$0	\$0	\$0	\$0
TS Primary Above 50	\$0	\$0	\$0	\$0	\$0
Distribution Stations	\$(2)	\$(74)	\$(80)	\$(106)	\$(55)
Poles, Wires	\$(75)	\$(129)	\$(104)	\$(271)	\$(122)
Line Transformers	\$(33)	\$(30)	\$(5)	\$(60)	\$(41)
Services and Meters	\$(68)	\$76	\$(499)	\$(209)	\$(157)
General Plant	\$0	\$0	\$0	\$(6,996)	\$0
Equipment	\$(46)	\$(1,235)	\$(49)	\$(138)	\$(93)
IT Assets	\$0	\$(3,250)	\$(133)	\$0	\$0
Other Distribution Assets	\$0	\$(184)	\$(18)	\$(134)	\$0
Sub-Total	\$(225)	\$(4,827)	\$(888)	\$(7,915)	\$(468)
Contributions and Grants	\$0	\$0	\$0	\$0	\$0
TOTAL ⁵	\$(225)	\$(4,827)	\$(888)	\$(7,915)	\$(468)

 $^{^{3}\,\,^{5}}$ Totals may not sum due to rounding.



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Table 3 – UPDATED FOR 2019 ACTUALS – Disposals - Historical Years (\$'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year
Land and Buildings	\$(1)	\$0	\$0	\$0	\$0
TS Primary Above 50	\$0	\$0	\$0	\$(623)	\$0
Distribution Stations	\$(2)	\$(74)	\$(80)	\$(553)	\$(55)
Poles, Wires	\$(75)	\$(129)	\$(104)	\$(40)	\$(122)
Line Transformers	\$(33)	\$(30)	\$(5)	\$(397)	\$(41)
Services and Meters	\$(68)	\$76	\$(499)	\$(275)	\$(157)
General Plant	\$0	\$0	\$0	\$(7,096)	\$0
Equipment	\$(46)	\$(1,235)	\$(49)	\$(1,458)	\$(93)
IT Assets	\$0	\$(3,250)	\$(133)	\$(4,851)	\$0
Other Distribution Assets	\$0	\$(184)	\$(18)	\$(134)	\$0
Sub-Total	\$(225)	\$(4,827)	\$(888)	\$(15,428)	\$(468)
Contributions and Grants	\$0	\$0	\$0	\$0	\$0
TOTAL ⁶	\$(225)	\$(4,827)	\$(888)	\$(15,428)	\$(468)

³ ⁶ Totals may not sum due to rounding.



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Table 4 - Disposals - Test Years (\$'000s)

Asset Group	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
Land and Buildings	\$0	\$0	\$0	\$0	\$0
TS Primary Above 50	\$0	\$0	\$0	\$0	\$0
Distribution Stations	\$(55)	\$(55)	\$(55)	\$(55)	\$(55)
Poles, Wires	\$(122)	\$(122)	\$(122)	\$(122)	\$(122)
Line Transformers	\$(41)	\$(41)	\$(41)	\$(41)	\$(41)
Services and Meters	\$(762)	\$(776)	\$(689)	\$(738)	\$(775)
General Plant	\$0	\$0	\$0	\$0	\$0
Equipment	\$(1,624)	\$(1,835)	\$(1,413)	\$(902)	\$(350)
IT Assets	\$0	\$0	\$0	\$0	\$0
Other Distribution Assets	\$0	\$0	\$0	\$0	\$0
Sub-Total	\$(2,604)	\$(2,829)	\$(2,320)	\$(1,858)	\$(1,343)
Contributions and Grants	\$0	\$600	\$360	\$370	\$410
TOTAL ⁷	\$(2,604)	\$(2,229)	\$(1,960)	\$(1,488)	\$(933)

2

3 4. DEPRECIATION AND AMORTIZATION RATES

- 4 Tables 5 and 6 below provide detailed rates of depreciation and amortization by Uniform System
- 5 of Accounts ("USofA"). Depreciation and amortization rates will remain unchanged between the
- 6 Historical/Bridge Years and the Test Years for all Accounts, with the exception of Accounts 1920
- 7 and 1930.

⁸ ⁷ Totals may not sum due to rounding.



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Table 5 – Property, Plant, and Equipment Depreciation Rates 2016-2020

0=0		2012	2015	2010	2010	
OEB	Description	2016	2017	2018	2019 Duides	2020
Acct		Historical	Historical	Historical	Bridge	Bridge
1609	Capital Contributions Paid	2.2%	2.2%	2.2%	2.2%	2.2%
1611	Computer Software	10% - 20%	10% - 20%	10% - 20%	10% - 20%	10% - 20%
1612	Land Rights	2%	2%	2%	2%	2%
1805	Land	N/A	N/A	N/A	N/A	N/A
1808	Buildings	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%
1815	Transformer Station Equip. >50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1820	Distribution Station Equip. <50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1830	Poles, Towers & Fixtures	2.2%	2.2%	2.2%	2.2%	2.2%
1835	Overhead Conductors & Devices	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%
1840	Underground Conduit	2.5%	2.5%	2.5%	2.5%	2.5%
1845	Underground Conductors & Devices	1.7% - 4%	1.7% - 4%	1.7% - 4%	1.7% - 4%	1.7% - 4%
1850	Line Transformers	2.9%	2.9%	2.9%	2.9%	2.9%
1855	Services (Overhead & Underground)	2.2%	2.2%	2.2%	2.2%	2.2%
1860	Meters	6.7%	6.7%	6.7%	6.7%	6.7%
1905	Land	N/A	N/A	N/A	N/A	N/A
1908	Buildings & Fixtures	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%
1915	Office Furniture & Equipment	10%	10%	10%	10%	10%
1920	Computer Equipment - Hardware	10% - 20%	10% - 20%	10% - 20%	10% - 20%	10% - 20%
1930	Transportation Equipment	6.7% - 14.3%	6.7% - 14.3%	6.7% - 14.3%	6.7% - 14.3%	6.7% - 14.3%
1935	Stores Equipment	10%	10%	10%	10%	10%
1940	Tools, Shop & Garage Equipment	10%	10%	10%	10%	10%
1945	Measurement & Testing Equipment	10%	10%	10%	10%	10%
1950	Power Operated Equipment	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%
1955	Communications Equipment	4% - 12.5%	4% - 12.5%	4% - 12.5%	4% - 12.5%	4% - 12.5%
1960	Miscellaneous Equipment	10%	10%	10%	10%	10%
1970	Load Mgmt Controls Customer Premises	10%	10%	10%	10%	10%
1975	Load Mgmt Controls Utility Premises	10%	10%	10%	10%	10%
1980	System Supervisor Equipment ⁸	6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%

³ Starting in 2017, this account also includes dark fiber, communication underground conduit and chambers,

⁴ communication support strand and fixture, and communication tower and support.



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Table 6 - Property, Plant, and Equipment Depreciation Rate 2021-2025

OEB Acct	Description	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
1609	Capital Contributions Paid	2.2%	2.2%	2.2%	2.2%	2.2%
1611	Computer Software	10% - 20%	10% - 20%	10% - 20%	10% - 20%	10% - 20%
1612	Land Rights	2%	2%	2%	2%	2%
1805	Land	N/A	N/A	N/A	N/A	N/A
1808	Buildings	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%
1815	Transformer Station Equip. >50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1820	Distribution Station Equip. <50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1830	Poles, Towers & Fixtures	2.2%	2.2%	2.2%	2.2%	2.2%
1835	Overhead Conductors & Devices	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%
1840	Underground Conduit	2.5%	2.5%	2.5%	2.5%	2.5%
1845	Underground Conductors & Devices	1.7 %- 4%	1.7 %- 4%	1.7 %- 4%	1.7 %- 4%	1.7 %- 4%
1850	Line Transformers	2.9%	2.9%	2.9%	2.9%	2.9%
1855	Services (Overhead & Underground)	2.2%	2.2%	2.2%	2.2%	2.2%
1860	Meters	6.7%	6.7%	6.7%	6.7%	6.7%
1905	Land	N/A	N/A	N/A	N/A	N/A
1908	Buildings & Fixtures	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%
1915	Office Furniture & Equipment	10%	10%	10%	10%	10%
1920	Computer Equipment - Hardware	10% - 25%	10% - 25%	10% - 25%	10% - 25%	10% - 25%
1930	Transportation Equipment	6.7% - 12.5%	6.7% - 12.5%	6.7% - 12.5%	6.7% - 12.5%	6.7% - 12.5%
1935	Stores Equipment	10%	10%	10%	10%	10%
1940	Tools, Shop & Garage Equipment	10%	10%	10%	10%	10%
1945	Measurement & Testing Equipment	10%	10%	10%	10%	10%
1950	Power Operated Equipment	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%
1955	Communications Equipment	4.0% -12.5%	4.0% - 12.5%	4.0% - 12.5%	4.0% - 12.5%	4.0% - 12.5%
1960	Miscellaneous Equipment	10%	10%	10%	10%	10%
1970	Load Mgmt Controls Customer Premises	10%	10%	10%	10%	10%
1975	Load Mgmt Controls Utility Premises	10%	10%	10%	10%	10%
1980	System Supervisor Equipment	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%



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1 The useful lives of Hydro Ottawa's assets and components have been determined based on

- 2 experience, professional judgement, failure data, and local conditions. Some useful lives differ
- 3 when compared to the useful life range noted in the Kinectrics Report.9 However, the useful
- 4 lives of Hydro Ottawa's assets have been approved in previous rate applications. The utility has
- 5 therefore continued to depreciate its fixed assets using the same methodology and useful lives
- 6 as in prior years.

7

8 For further details on the useful lives of Hydro Ottawa's assets, please reference Attachment

9 4-3-1(A): OEB Appendix 2-BB - Service Life Comparison.

10

11 As indicated in Exhibit 2-4-4: Capitalization Policy, Hydro Ottawa is requesting to change the

- 12 useful life of laptops from five years to four years. The useful life for Computer Equipment
- 13 (Hardware) contained in the Kinectrics Report is three to five years.

14

- 15 Hydro Ottawa is also requesting to extend the useful life of some transportation equipment.
- 16 Please refer to Attachment 2-4-3(F): Fleet Replacement Program for further details.

17

- 18 There are variances between the depreciation and amortization calculated using the formulas in
- 19 the annual UPDATED Appendix 2-C10 and those presented in the annual UPDATED Appendix
- 20 2-BA.¹¹ Hydro Ottawa uses the half-year rule for calculating depreciation/amortization in the year
- 21 that capital additions are added to the rate base, for both actual and budgeted pooled assets.
- 22 However, in the case of discrete material assets (e.g. a station, major investment in IT assets,
- 23 and so forth), the actual or forecasted in-service month would be used to calculate the
- 24 depreciation/amortization. This is consistent with Hydro Ottawa's historical practices for these
- 25 types of assets, for both rate application and financial reporting purposes.

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²⁶ Stinetrics Inc., Asset Depreciation Study for Use by Electricity Distributors, EB-2010-0178 (July 8, 2010).

²⁷ The OEB's Appendix 2-C for the years 2016-2025 can be found in Attachments 4-3-1(B)-(K), respectively.

²⁸ Appendix 2-C for the years 2019-2025 has been updated to account for 2019 actuals, and can be found in UPDATED

Attachments 4-3-1(E)-(K), respectively.

Attachments 4-3-1(E)-(K), respectively.

The OEB's Appendix 2-BA for the years 2016-2025 can be found in Attachments 2-2-1(A)-(J), respectively.

³¹ Appendix 2-BA for the years 2019-2025 has been updated to account for 2019 actuals, and can be found in

³² UPDATED Attachments 2-2-1(D)-(J), respectively.



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- 1 Hydro Ottawa uses its financial system to calculate depreciation and amortization expense on
- 2 assets that are already in service, and uses a depreciation forecast model to calculate
- 3 depreciation and amortization on budgeted capital additions. Both the financial system and
- 4 forecast model incorporate actual in-service dates of discrete material assets in the calculation.
- 5 Hydro Ottawa proposes to continue this method of calculating depreciation for the 2021-2025
- 6 period.

7

5. NET GAIN/LOSS ON DISPOSITION

- 9 In Hydro Ottawa's last rebasing application, 12 the OEB approved the establishment of USofA
- 10 4362 Loss from Retirement of Utility and Other Property to record the difference between the
- 11 forecast and actual loss on the disposal of fixed assets related to retirement of assets or
- 12 damages to plant. Table 7 below provides the balance in USofA 4362 for the Historical Years
- 13 (2016-2018) and Bridge Years (2019 and 2020). The table has been updated to provide the
- balance in USofA 4362 for the Historical Years (2016-2019) and Bridge Year (2020).

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 ^{15 &}lt;sup>12</sup> Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application, EB-2015-0004
 16 (April 29, 2015).



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6

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Table 7 – AS ORIGINALLY SUBMITTED – Loss from Retirement of Utility and Other

Property (\$'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	TOTAL
USofA 4362 OEB-Approved	\$(198)	\$(198)	\$(198)	\$(198)	\$(198)	\$(990)
USofA 4362 Actual	\$350	\$152	\$264	\$1,164	\$301	\$2,231
USofA 1508 ¹³ Variance ¹⁴	\$(548)	\$(351)	\$(462)	\$(1,362)	\$(499)	\$(3,221)

Table 7 – UPDATED FOR 2019 ACTUALS – Loss from Retirement of Utility and Other

Property (\$'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	TOTAL
USofA 4362 OEB-Approved	\$(198)	\$(198)	\$(198)	\$(198)	\$(198)	\$(990)
USofA 4362 Actual	\$350	\$152	\$264	\$1,984	\$301	\$3,051
USofA 1508 ¹⁵ Variance ¹⁶	\$(548)	\$(351)	\$(462)	\$(2,183)	\$(499)	\$(4,043)

7 The 2019 forecast net gain in Table 7 does not include the net gain on the sale of the Albion

land and building, nor the net gain on the sale of the Merivale land and building. Similarly, the

net gain in the updated version of Table 7 that accounts for 2019 actuals does not include the

0 net gain on the sale of the Albion or the Merivale lands and buildings. As per the Approved

11 Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term, the utility is recording

12 the net gain from the sale of these facilities in a separate regulatory account (Gains/Losses from

3 Sale of Existing Facilities Deferral account), which captures 100% of the after tax net gain/loss

14 on the sale of the facilities.

16 In UPDATED Exhibit 9-1-3: Group 2 Accounts, Hydro Ottawa is seeking the continuance of the

17 net gain/loss on fixed assets variance account. Table 8 below provides the annual forecast

18 amounts for the 2021-2025 Test Years.

¹⁹ This refers to USofA 1508 Sub-Account Gains and Loss on Disposal of Fixed Assets Variance Account.

²⁰ ¹⁴ Totals may not sum due to rounding.

²¹ This refers to USofA 1508 Sub-Account Gains and Loss on Disposal of Fixed Assets Variance Account.

²² ¹⁶ Totals may not sum due to rounding.



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Table 8 – Loss from Retirement of Utility and Other Property (\$'000s)

Net (Gain)/Loss	2021 Test	2022 Test	2023 Test	2024 Test	2025 Test	TOTAL
Forecast	\$389	\$751	\$323	\$336	\$445	\$2,243

3

2

1

4 6. ASSET RETIREMENT OBLIGATION

5 According to the International Financial Reporting Standards and Article 410 of the OEB's

6 Accounting Procedures Handbook, an entity is required to recognize a liability related to the

7 retirement of certain fixed assets typically as a result of environmental laws or regulations. This

8 obligation - referred to as an asset retirement obligation ("ARO") - is measured at the present

9 value of future decommissioning, restoration, or similar cost.

10

11 Hydro Ottawa maintains an ARO related to the disposal and removal cost of Polychlorinated

2 Biphenyls in its distribution equipment. The amount of the obligation and related depreciation

13 expense in Historical and Bridge Years are shown in Table 9.

1415

Table 9 – AS ORIGINALLY SUBMITTED – Asset Retirement Obligation (\$'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge
ARO	\$(206)	\$(107)	\$(62)	\$0	\$0
Related depreciation expense	\$36	\$36	\$36	\$36	\$36

1617

Table 9 – UPDATED FOR 2019 ACTUALS – Asset Retirement Obligation (\$'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge
ARO	\$(206)	\$(107)	\$(62)	\$0	\$0
Related depreciation expense	\$36	\$36	\$36	\$36	\$36

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected	Accounting Standard Reflected in Schedule
	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2019	MIFRS

Acco	scription mputer Software (Formally known as count 1925)	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets	Opening Gross Book Value of		Net Amount of		Average					Depreciation			Depreciation	$\overline{}$
1612 Land				Before Policy Change to be Depreciated	Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Remaining Life of Assets Existing Before Policy Change 3	Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Expense on Assets Acquired After Policy	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Expense per Appendix 2-BA Fixed Assets, Column J	
1612 Land		a	b	c = a-b	d	е	f = d- e	g	h	i = 1/h	j	k = 1/j	I = c/h	m = f/j	n = g*0.5/j	o = I+m+n	р	q = p-o
	count 1923)			s -	\$ 66,628,705	\$ 7,533,163	\$ 59,095,542	\$ 1,921,467		0.00%	9.00	11.11%	\$ -	\$ 6,566,171	\$ 106,748	\$ 6,672,920	\$ 6,143,340	-\$ 529,580
1805 Land	nd Rights (Formally known as Account 1906)			\$ -	\$ 2,288,399	\$ 4		\$ 236,496		0.00%	39.00	2.56%	\$ -	\$ 58,677	\$ 3,032	\$ 61,709	\$ 61,925	\$ 216
	nd			S -	\$ 4,652,534		\$ 4,652,534	\$ 7,031		0.00%		0.00%	\$ -	\$ -	s -	\$ -	\$ -	\$ -
	ildings			\$ -	\$ 29,662,313	\$ 327,320	\$ 29,334,993	\$ 24,664		0.00%	38.00	2.63%	\$ -	\$ 771,974	\$ 325	\$ 772,298	\$ 776,707	\$ 4,409
1810 Leas	asehold Improvements			S -	\$ -		\$ -			0.00%		0.00%	\$ -	\$ -	s -	\$ -	\$ -	\$ -
	ansformer Station Equipment >50 kV			\$ -	\$ 87,113,649	\$ 309,325	\$ 86,804,324	\$29,717,361		0.00%	30.00	3.33%	\$ -	\$ 2,893,477	\$ 495,289	\$ 3,388,767	\$ 3,327,564	-\$ 61,203
1820 Distr	stribution Station Equipment <50 kV			\$ -	\$ 116,486,704	\$ 2,913,792	\$ 113,572,912	\$13,434,802		0.00%	30.00	3.33%	\$ -	\$ 3,785,764	\$ 223,913	\$ 4,009,677	\$ 4,130,036	\$ 120,359
1825 Stor	orage Battery Equipment			S -	\$ -		\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	les, Towers & Fixtures			\$ -	\$ 128,238,649		\$ 128,238,649	\$ 9,347,374		0.00%	40.00	2.50%	\$ -	\$ 3,205,966	\$ 116,842	\$ 3,322,808	\$ 3,311,715	
1835 Over	erhead Conductors & Devices			\$ -	\$ 121,173,565	\$ 89,197		\$ 7,379,518		0.00%	38.00	2.63%	\$ -	\$ 3,186,431	\$ 97,099	\$ 3,283,530	\$ 3,233,029	-\$ 50,501
1840 Und	derground Conduit			\$ -	\$ 183,207,129		\$ 183,207,129	\$33,680,556		0.00%	34.00	2.94%	\$ -	\$ 5,388,445	\$ 495,302	\$ 5,883,747	\$ 5,633,685	-\$ 250,062
1845 Und	derground Conductors & Devices			\$ -	\$ 158,561,750	\$ 695,152	\$ 157,866,598	\$16,811,784		0.00%	30.00	3.33%	\$ -	\$ 5,262,220	\$ 280,196	\$ 5,542,416	\$ 5,424,311	-\$ 118,105
1850 Line	e Transformers			\$ -	\$ 87,689,119		\$ 87,689,119	\$ 9,114,220		0.00%	30.00	3.33%	\$ -	\$ 2,922,971	\$ 151,904	\$ 3,074,874	\$ 3,023,783	-\$ 51,091
1855 Serv	rvices (Overhead & Underground)			\$ -	\$ 67,353,122		\$ 67,353,122	\$ 3,778,458		0.00%	38.00	2.63%	\$ -	\$ 1,772,451	\$ 49,717	\$ 1,822,167	\$ 1,792,870	-\$ 29,297
1860 Mete	eters			\$ -	\$ -		\$ -			0.00%		0.00%	\$ -	\$ -	s -	\$ -	\$ -	\$ -
1860 Mete	eters (Smart Meters)			\$ -	\$ 42,379,461		\$ 42,379,461	\$ 5,261,159		0.00%	10.00	10.00%	\$ -	\$ 4,237,946	\$ 263,058	\$ 4,501,004	\$ 5,067,650	\$ 566,646
1905 Land	nd			\$ -	\$ 20,559,542		\$ 20,559,542	-\$ 7,032		0.00%		0.00%	\$ -	\$ -	s -	\$ -	\$ 2,707	\$ 2,707
1908 Buik	ildings & Fixtures			\$ -	\$ 35,196,689	\$ 399,989	\$ 34,796,700	\$80,491,112		0.00%	24.00	4.17%	\$ -	\$ 1,449,863	\$ 1,676,898	\$ 3,126,761	\$ 3,148,452	\$ 21,691
1910 Leas	asehold Improvements			\$ -	\$ -		\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1915 Offic	fice Furniture & Equipment (10 years)			\$ -	\$ 1,615,831	\$ 538,248	\$ 1,077,583	\$ 3,375,063		0.00%	10.00	10.00%	\$ -	\$ 107,758	\$ 168,753	\$ 276,511	\$ 332,224	\$ 55,713
1915 Offic	fice Furniture & Equipment (5 years)			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1920 Com	mputer Equipment - Hardware			\$ -			\$ -			0.00%		0.00%	\$ -	s -	s -	\$ -	\$ -	s -
1920 Com	mputer EquipHardware(Post Mar. 22/04)			s -			\$ -			0.00%		0.00%	\$ -	\$ -	s -	\$ -	\$ -	\$ -
1920 Com	mputer EquipHardware(Post Mar. 19/07)			s -	\$ 8,599,983	\$ 1,408,900	\$ 7,191,083	\$ 4,355,405		0.00%	6.00	16.67%	s -	\$ 1,198,514	\$ 362,950	\$ 1,561,464	\$ 1,613,390	\$ 51,926
1930 Tran	ansportation Equipment			s -	\$ 17,432,618	\$ 675,181	\$ 16,757,437	\$ 1,716,783		0.00%	10.00	10.00%	s -	\$ 1,675,744	\$ 85,839	\$ 1,761,583	\$ 1,700,698	-\$ 60,885
1935 Stor	ores Equipment			\$ -	\$ -		\$ -	\$ 560,703		0.00%	10.00	10.00%	s -	s -	\$ 28,035	\$ 28,035	\$ 28,035	
1940 Tool	ols, Shop & Garage Equipment			s -	\$ 4,196,389	\$ 302,427	\$ 3,893,962	\$ 378,633		0.00%	10.00	10.00%	s -	\$ 389,396	\$ 18,932	\$ 408,328	\$ 447,027	\$ 38,699
	easurement & Testing Equipment			s -	\$ 215.441	\$ 5.974	\$ 209.467			0.00%	9.00	11.11%	s -	\$ 23,274	s -	\$ 23,274	\$ 23,447	S 173
	wer Operated Equipment			s -	\$ 984.836	\$ 14.694	\$ 970.142	\$ 137,293		0.00%	11.00	9.09%	s -	\$ 88,195	\$ 6.241	\$ 94,435	\$ 89,271	-\$ 5,164
1955 Com	mmunications Equipment			s -	\$ 10.990.288	\$ 30,391	\$ 10.959.897	\$ 4,307,702		0.00%	9.00	11.11%	s -	\$ 1,217,766		\$ 1,457,083	\$ 1,481,019	\$ 23,936
	mmunication Equipment (Smart Meters)			s -	s -		s -	, , , , ,		0.00%		0.00%	s -	s -	s -	s -	s -	s -
	scellaneous Equipment			s -	\$ 255,191	\$ 21,376	\$ 233,815	\$ 2,187		0.00%	7.00	14.29%	s -	\$ 33,402	S 156	\$ 33,558	\$ 27,502	-\$ 6,056
	ad Management Controls Customer Premises			s -	\$ 134,245		\$ 134,245			0.00%		0.00%	s -	s -	s -	\$ -	\$ -	s -
	ad Management Controls Utility Premises			s -	s -		s -			0.00%		0.00%	s -	s -	s -	s -	s -	s .
	stem Supervisor Equipment			S -	\$ 11,472,277	\$ 214,044	\$ 11,258,233	\$ 2,263,895		0.00%	10.00	10.00%	s -	\$ 1,125,823	\$ 113,195	\$ 1,239,018	\$ 1,219,913	-\$ 19.105
	scellaneous Fixed Assets			S -	\$ -		\$ -	s -		0.00%	12.00	0.00%	s -	\$ 1,123,023	\$ 115,135	\$ -	,,,,,,,,	\$ -
	her Tangible Property			S -	s -		\$ -	s -		0.00%		0.00%	s -	\$.	s .	\$.	-	
	intributions & Grants			s .	-\$ 117.728.566		-\$ 117.728.566	-\$24.990.799		0.00%	32.00	3.13%	• .	-\$ 3,679,018	\$ 390,481	-\$ 4,069,499	-\$ 3.767.044	\$ 302,455
	pital Contributions Paid			-	\$ 22.975.568		\$ 22.975.568	\$11,709,864		0.00%	45.00	2.22%	s -	\$ 510,568	\$ 130,110	\$ 640,678	\$ 627,148	
Tota		s -	s -		. , , , , , , ,	\$ 15 479 177	\$ 1,096,856,254	\$215,015,699		5.5070	12.00		s -		\$ 4,723,370			-\$ 16,743

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

- 1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.
- This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.
- A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) pas at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is 6 determined to be 27 years (20 years lies s3 years) under the revised CGAAP, except a life of the opening balance of Asset A is 6 determined to be 27 years (20 years lies s3 years) under the revised CGAAP.
- 4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report. OEB policy of the "half-year" rule the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.
- 6 The applicant must provide an explanation of material variances in evidence.
- 7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change
- 8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2020	MIFRS

							Service	Lives			epreciation	Expense		1				
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated c = a-b	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated f = d-e	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy m = f/i		Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
	Computer Software (Formally known as	u u		0-00			1-4-0	9			,	K - 17	1-011	111 - 111	11 - g 0.5/j	0 - 14111411	P	4-60
1611	Account 1925)			\$ -		\$ 10,925,522	,,	\$13,030,880		0.00%	9.00	11.11%	\$ -	\$ 6,186,450	\$ 723,938	\$ 6,910,388	\$ 6,468,113	¥,=
1612	Land Rights (Formally known as Account 1906)			\$ -	\$ 2,524,895	\$ 4	, ,, ,, ,	\$ 8,306		0.00%	39.00	2.56%	\$ -	\$ 64,741	\$ 106	\$ 64,847	\$ 59,409	-\$ 5,438
1805	Land			\$ -	\$ 4,659,565		\$ 4,659,565	\$ 1,047		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1808	Buildings			\$ -	\$ 29,686,977	\$ 327,320	\$ 29,359,657	\$ 707,754		0.00%	38.00	2.63%	\$ -	\$ 772,623	\$ 9,313	\$ 781,935	\$ 802,687	\$ 20,752
1810	Leasehold Improvements			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1815	Transformer Station Equipment >50 kV			\$ -	\$ 115,599,760	\$ 1,004,348	\$ 114,595,412	\$ 3,148,680		0.00%	30.00	3.33%	\$ -	\$ 3,819,847	\$ 52,478	\$ 3,872,325	\$ 3,669,308	-\$ 203,017
1820	Distribution Station Equipment <50 kV			\$ -	\$ 129,195,408	\$ 3,513,471	\$ 125,681,937	\$ 5,860,007		0.00%	31.00	3.23%	\$ -	\$ 4,054,256	\$ 94,516	\$ 4,148,772	\$ 4,450,661	\$ 301,889
1825	Storage Battery Equipment			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1830	Poles, Towers & Fixtures			\$ -	\$ 137,470,488		\$ 137,470,488	\$ 9,394,503		0.00%	40.00	2.50%	\$ -	\$ 3,436,762	\$ 117,431	\$ 3,554,193	\$ 3,480,842	-\$ 73,351
1835	Overhead Conductors & Devices			\$ -	\$ 128,553,082	\$ 135,161	\$ 128,417,921	\$16,910,513		0.00%	39.00	2.56%	\$ -	\$ 3,292,767	\$ 216,801	\$ 3,509,569	\$ 3,592,858	\$ 83,289
1840	Underground Conduit			\$ -	\$ 216,883,550	\$ 371,435	\$ 216,512,115	\$23,166,955		0.00%	36.00	2.78%	\$ -	\$ 6,014,225	\$ 321,763	\$ 6,335,989	\$ 6,137,186	-\$ 198,803
1845	Underground Conductors & Devices			\$ -	\$ 175,230,833	\$ 959,525	\$ 174,271,308	\$24,832,592		0.00%	31.00	3.23%	\$ -	\$ 5,621,655	\$ 400,526	\$ 6,022,181	\$ 5,978,466	-\$ 43,715
1850	Line Transformers			\$ -	\$ 94,890,921		\$ 94,890,921	\$ 8,055,161		0.00%	30.00	3.33%	\$ -	\$ 3,163,031	\$ 134,253	\$ 3,297,283	\$ 3,187,549	-\$ 109,734
1855	Services (Overhead & Underground)			\$ -	\$ 71,087,401	\$ 44,179	\$ 71,043,222	\$ 4,568,833		0.00%	38.00	2.63%	\$ -	\$ 1,869,558	\$ 60,116	\$ 1,929,675	\$ 1,911,293	-\$ 18,382
1860	Meters			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1860	Meters (Smart Meters)			\$ -	\$ 47,198,912		\$ 47,198,912	\$ 5,077,444		0.00%	10.00	10.00%	\$ -	\$ 4,719,891	\$ 253,872	\$ 4,973,763	\$ 5,049,583	\$ 75,820
1905	Land			\$ -	\$ 19,942,005		\$ 19,942,005	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ 4,047	\$ 4,047
1908	Buildings & Fixtures			\$ -	\$ 94,650,962	\$ 394,976	\$ 94,255,986	\$ 352,679		0.00%	31.00	3.23%	\$ -	\$ 3,040,516	\$ 5,688	\$ 3,046,204	\$ 3,025,591	-\$ 20,613
1910	Leasehold Improvements			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1915	Office Furniture & Equipment (10 years)			\$ -	\$ 4,344,722	\$ 646,173	\$ 3,698,549	\$ 100,766		0.00%	10.00	10.00%	\$ -	\$ 369,855	\$ 5,038	\$ 374,893	\$ 425,555	\$ 50,662
1915	Office Furniture & Equipment (5 years)			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1920	Computer Equipment - Hardware			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1920	Computer EquipHardware(Post Mar. 22/04)			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1920	Computer EquipHardware(Post Mar. 19/07)			\$ -	\$ 10,046,414	\$ -	\$ 10,046,414	\$ 1,459,982		0.00%	7.00	14.29%	\$ -	\$ 1,435,202	\$ 104,284	\$ 1,539,486	\$ 1,762,186	\$ 222,700
1930	Transportation Equipment			\$ -	\$ 18,838,678	\$ 1,770,698	\$ 17,067,980	\$ 180,773		0.00%	11.00	9.09%	\$ -	\$ 1,551,635	\$ 8,217	\$ 1,559,852	\$ 1,560,773	\$ 922
1935	Stores Equipment			\$ -	\$ 560,703		\$ 560,703	\$ -		0.00%	10.00	10.00%	\$ -	\$ 56,070	\$ -	\$ 56,070	\$ 56,225	\$ 155
1940	Tools, Shop & Garage Equipment			\$ -	\$ 3,997,781	\$ 577,242	\$ 3,420,539	\$ 449,596		0.00%	10.00	10.00%	\$ -	\$ 342,054	\$ 22,480	\$ 364,534	\$ 446,365	\$ 81,831
1945	Measurement & Testing Equipment			\$ -	\$ 209,467	\$ 5,974	\$ 203,493	\$ -		0.00%	9.00	11.11%	\$ -	\$ 22,610	\$ -	\$ 22,610	\$ 23,512	\$ 902
1950	Power Operated Equipment			\$ -	\$ 1,122,129	\$ 14,694	\$ 1,107,435	\$ 354,695		0.00%	14.00	7.14%	\$ -	\$ 79,103	\$ 12,668	\$ 91,770	\$ 89,524	-\$ 2,246
1955	Communications Equipment			\$ -	\$ 15,266,072	\$ 31,917	\$ 15,234,155	\$ 1,012,516		0.00%	10.00	10.00%	\$ -	\$ 1,523,416	\$ 50,626	\$ 1,574,041	\$ 1,560,031	-\$ 14,010
1955	Communication Equipment (Smart Meters)			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1960	Miscellaneous Equipment			\$ -	\$ 198,958	\$ 58,420	\$ 140,538	\$ 6,099		0.00%	10.00	10.00%	\$ -	\$ 14,054	\$ 305	\$ 14,359	\$ 25,019	\$ 10,660
1970	Load Management Controls Customer Premises			\$ -	\$ -		\$ -	\$ -		0.00%	10.00	10.00%	\$ -	\$ -	\$ -	\$ -	\$ -	s -
1975	Load Management Controls Utility Premises			s -	\$ -		\$ -	s -		0.00%	10.00	10.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1980	System Supervisor Equipment			s -	\$ 13,736,173	\$ 600,651	\$ 13,135,522	\$ 1,013,957		0.00%	11.00	9.09%	\$ -	\$ 1,194,138	\$ 46,089	\$ 1,240,227	\$ 1,235,550	-\$ 4,677
1985	Miscellaneous Fixed Assets			\$ -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	. , , , , , , , , , , , , , , , , , , ,	\$ -
1990	Other Tangible Property			s -	\$ -		\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
2440	Contributions & Grants			s -	-\$ 142,719,366		-\$ 142,719,366	-\$36,003,198		0.00%	32.00	3.13%	\$ -	-\$ 4,459,980	-\$ 562,550	-\$ 5,022,530	-\$ 5,089,115	-\$ 66,585
1609	Capital Contributions Paid				\$ 34,685,433		\$ 34.685.433	\$ 910,000		0.00%	45.00	2.22%	s -	\$ 770,787	\$ 10,111	\$ 780,899	\$ 790,975	
—		\$ -	s -	s -	\$ 1,294,465,493	\$ 21.381.710	\$ 1,273,083,783	\$ 84,600,540	†				\$ -		\$ 2,088,070	,		-\$ 339,143

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

- This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.
- 2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year's additions.
- A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 5 years) as at January 1 of the year of policy changes. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (20 years less 3 years) under the revised coarse. The policy changes is a service of the policy changes of the policy changes. Therefore, the average remaining useful life of the opening balance of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is a discussion of the policy changes.
- 4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.
- 5 OEB policy of the "half-year" rule the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application
- 6 The applicant must provide an explanation of material variances in evidence.
- 7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change
- 8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2021	MIFRS

					Book Values					Service	Lives			epreciation	Expense			
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated c = a-b	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated f = d-e	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3		Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy m = f/i		Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
4044	Computer Software (Formally known as			0-00	_	-		- J			,	K - 17	1 - 011	111-11	11 - g 0.5/j	0 - 14111411	Р	4-60
1611	Account 1925)			\$ -	,,	\$ 17,064,281	\$ 62,570,169	\$ 6,988,497		0.00%	9.00	11.11%	\$ -	\$ 6,952,241	\$ 388,250	\$ 7,340,491	\$ 7,305,676	
1612	Land Rights (Formally known as Account 1906)			\$ -	, ,,,,,	\$ 4	, ,,,,,	\$ 13,268		0.00%	39.00	2.56%	\$ -	\$ 64,954	\$ 170	\$ 65,124	\$ 59,497	-\$ 5,627
1805	Land			\$ -	\$ 4,660,612		\$ 4,660,612	\$ 1,569		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$-	\$ -
1808	Buildings			\$ -	\$ 30,394,731	\$ 390,060	\$ 30,004,671	\$ 724,819		0.00%	38.00	2.63%	\$ -	\$ 789,597	\$ 9,537	\$ 799,134	\$ 818,992	\$ 19,858
1810	Leasehold Improvements			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$-	\$ -
1815	Transformer Station Equipment >50 kV			\$ -		\$ 1,429,027	\$ 117,319,413	\$ 8,247,498		0.00%	32.00	3.13%	\$ -	\$ 3,666,232	\$ 128,867	\$ 3,795,099	\$ 3,757,680	-\$ 37,419
1820	Distribution Station Equipment <50 kV			\$ -	\$ 134,959,234	\$ 4,398,489	\$ 130,560,745	\$13,738,471		0.00%	32.00	3.13%	\$ -	\$ 4,080,023	\$ 214,664	\$ 4,294,687	\$ 4,462,581	\$ 167,894
1825	Storage Battery Equipment			\$ -			\$ -	0 0 745 474		0.00%	44.00	0.00%	\$ -	\$ -	\$ -	\$ -	\$-	\$ -
1830	Poles, Towers & Fixtures			\$ -	\$ 146,551,288		\$ 146,551,288	\$ 8,715,471		0.00%	41.00	2.44%	\$ -	\$ 3,574,422	\$ 106,286	\$ 3,680,708	\$ 3,673,027	. ,
1835	Overhead Conductors & Devices			\$ -	\$ 145,233,051	\$ 196,375	,,.	\$11,400,338		0.00%	39.00	2.56%	\$ -	\$ 3,718,889	\$ 146,158	\$ 3,865,047	\$ 3,938,401	,
1840	Underground Conduit			\$ -		\$ 438,127	\$ 239,612,378 \$ 198,265,677	\$25,696,125 \$26,000,462		0.00%	37.00 32.00	2.70% 3.13%	\$ -	\$ 6,476,010	\$ 347,245 \$ 406,257	\$ 6,823,255 \$ 6,602,060	\$ 6,713,783 \$ 6,661,033	
1845 1850	Underground Conductors & Devices Line Transformers			5 -		\$ 1,438,679	,,.	\$ 8,365,754			31.00	3.13%	\$ -	\$ 6,195,802		, ,	\$ 3,405,578	
1855	Services (Overhead & Underground)			\$ -	\$ 102,725,515	\$ 44,179	, .,			0.00%	31.00	2.63%	\$ -	\$ 3,313,726	\$ 134,932	\$ 3,448,658	\$ 3,405,578	
1860	Meters			\$ - \$ -	\$ 75,000,234	\$ 44,179	\$ 75,612,055	\$ 4,404,116		0.00%	36.00	0.00%	\$ -	\$ 1,989,791	\$ 57,949	\$ 2,047,740	\$ 2,000,000	-\$ 41,734
1860	Meters (Smart Meters)			s -	\$ 51.855.664		\$ 51.855.664	\$ 7.339.435		0.00%	12.00	8.33%	s -	\$ 4.321,305	\$ 305,810	\$ 4.627.115	\$ 4.812.311	\$ 185,196
1905	Land			s -	\$ 19.942.005		\$ 19,942,005	\$ 7,339,433		0.00%	12.00	0.00%	s -	\$ 4,321,305	\$ 305,610	\$ 4,027,115	\$ 4,012,311	,
1908	Buildings & Fixtures				,. ,	\$ 443,437	\$ 94.560.204	\$ 352.679		0.00%	31.00	3.23%	s -	\$ 3.050.329	\$ 5,688	\$ 3,056,018	\$ 3.116.870	
1910	Leasehold Improvements			s .	9 95,005,041	\$ 440,407	\$ 34,300,204	\$ 332,079		0.00%	31.00	0.00%	s -	\$ 3,030,323	\$ 3,000	\$ 5,050,010	\$ 5,110,070	\$ 00,032
1915	Office Furniture & Equipment (10 years)			s .	\$ 4.445.488	\$ 709,786	\$ 3,735,702	\$ 75.574		0.00%	10.00	10.00%	s -	\$ 373,570	\$ 3,779	\$ 377,349	\$ 416.853	\$ 39,504
1915	Office Furniture & Equipment (5 years)			s -	4,440,400	\$ 700,700	\$ -	¥ 10,011		0.00%	10.00	0.00%	s -	\$ -	\$ -	\$ -	\$-	\$ -
1920	Computer Equipment - Hardware			s -			s -			0.00%		0.00%	s -	s -	s -	s -	S-	s -
1920	Computer EquipHardware(Post Mar. 22/04)			s -			s -			0.00%		0.00%	\$ -	s -	s -	s -	S-	s -
1920	Computer EquipHardware(Post Mar. 19/07)			s -	\$ 11,506,396	\$ 1,360,639	\$ 10,145,757	\$ 1,463,823		0.00%	6.00	16.67%	\$ -	\$ 1,690,960	\$ 121,985	\$ 1,812,945	\$ 1,884,900	\$ 71,955
1930	Transportation Equipment			s -	\$ 18,991,686	\$ 2,058,092	\$ 16,933,594	\$ 6,124,426		0.00%	16.00	6.25%	\$ -	\$ 1,058,350	\$ 191,388	\$ 1,249,738	\$ 1,220,734	-\$ 29,004
1935	Stores Equipment			\$ -	\$ 560,703		\$ 560,703			0.00%	10.00	10.00%	\$ -	\$ 56,070	\$ -	\$ 56,070	\$ 56,224	\$ 154
1940	Tools, Shop & Garage Equipment			\$ -	\$ 4,447,377	\$ 951,720	\$ 3,495,657	\$ 473,651		0.00%	10.00	10.00%	\$ -	\$ 349,566	\$ 23,683	\$ 373,248	\$ 440,309	\$ 67,061
1945	Measurement & Testing Equipment			\$ -	\$ 209,467	\$ 5,974	\$ 203,493			0.00%	10.00	10.00%	\$ -	\$ 20,349	\$ -	\$ 20,349	\$ 23,447	\$ 3,098
1950	Power Operated Equipment			\$ -	\$ 1,392,949	\$ 20,015	\$ 1,372,934	\$ 163,845		0.00%	15.00	6.67%	\$ -	\$ 91,529	\$ 5,462	\$ 96,990	\$ 99,140	\$ 2,150
1955	Communications Equipment			\$ -	\$ 16,278,588	\$ 410,286	\$ 15,868,302	\$ 3,476,464		0.00%	9.00	11.11%	\$ -	\$ 1,763,145	\$ 193,137	\$ 1,956,282	\$ 1,786,969	-\$ 169,313
1955	Communication Equipment (Smart Meters)			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$-	\$ -
1960	Miscellaneous Equipment			\$ -	\$ 205,057	\$ 100,653	\$ 104,404	\$ 7,305		0.00%	12.00	8.33%	\$ -	\$ 8,700	\$ 304	\$ 9,005	\$ 19,031	\$ 10,026
1970	Load Management Controls Customer Premises			\$ -	\$ -		\$ -	\$ -		0.00%	10.00	10.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1975	Load Management Controls Utility Premises			\$ -	\$ -		\$ -	\$ -		0.00%	10.00	10.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1980	System Supervisor Equipment			\$ -	\$ 14,750,130	\$ 1,175,775	\$ 13,574,355	\$ 1,576,567		0.00%	11.00	9.09%	\$ -	\$ 1,234,032	\$ 71,662	\$ 1,305,694	\$ 1,261,664	-\$ 44,030
1985	Miscellaneous Fixed Assets			\$ -			\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1990	Other Tangible Property			\$ -			\$ -	\$ -		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
2440	Contributions & Grants			\$ -	-\$ 178,722,564		-\$ 178,722,564	-\$ 40,195,489		0.00%	31.00	3.23%	\$ -	-\$ 5,765,244	-\$ 648,314	-\$ 6,413,558	-\$ 6,700,322	
1609	Capital Contributions Paid				\$ 35,595,433		\$ 35,595,433	\$51,223,891		0.00%	45.00	2.22%	\$ -	\$ 791,010	\$ 569,154	\$ 1,360,164	\$ 1,088,293	-\$ 271,871
	Total	\$ -	s -	s -	\$ 1,377,313,637	\$ 32,635,598	\$ 1.344,678,039	\$146,378,559					s -	\$ 49.865.358	\$ 2,784,053	\$ 52,649,411	\$ 52,332,724	-\$ 316.687

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

- This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.
- This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year's additions.
- A reactulation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years lies 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of 6 penetring balance of Asset A is 27 years (30 years lies 32 years) under 10 years of policy changes.
- 4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.
- OEB policy of the "half-year" rule the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.
- The applicant must provide an explanation of material variances in evidence.
- This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change
- 8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2022	MIFRS

					Book Values					Service Lives				Depreciation Expense				
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated c = a-b	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated f = d-e	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy	Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
	Ot O-ft (Fth-)	a	U	C = a-D	u	e	1 = u- e	y	"	1-1/11	J	K = 1/j	I = c/h	m = f/j	n = g*0.5/j	o = l+m+n	р	q = p-o
1611	Computer Software (Formally known as Account 1925)			s -	\$ 86,622,947	\$ 18,168,786	\$ 68,454,161	\$ 6,380,278		0.00%	8.00	12.50%	\$ -	\$ 8,556,770	\$ 398,767	\$ 8,955,538	\$ 8,607,321	-\$ 348,217
1612	Land Rights (Formally known as Account 1906)			\$ -	\$ 2,546,469	\$ 4	\$ 2,546,465	\$ 13,040		0.00%	39.00	2.56%	\$ -	\$ 65,294	\$ 167	\$ 65,461	\$ 59,760	-\$ 5,701
1805	Land			\$ -	\$ 4,662,181		\$ 4,662,181	\$ 162,462		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1808	Buildings			\$ -	\$ 31,119,550	\$ 393,954	\$ 30,725,596	\$ 8,365,966		0.00%	43.00	2.33%	\$ -	\$ 714,549	\$ 97,279	\$ 811,827	\$ 934,231	\$ 122,404
1810	Leasehold Improvements			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1815	Transformer Station Equipment >50 kV			\$ -	\$ 126,995,938	\$ 1,596,720	\$ 125,399,218	\$25,611,949		0.00%	30.00	3.33%	\$ -	\$ 4,179,974	\$ 426,866	\$ 4,606,840	\$ 4,359,904	-\$ 246,936
1820	Distribution Station Equipment <50 kV			\$ -	\$ 148,601,524	\$ 5,423,510	\$ 143,178,014	\$10,005,389		0.00%	33.00	3.03%	\$ -	\$ 4,338,728	\$ 151,597	\$ 4,490,325	\$ 4,699,714	\$ 209,389
1825	Storage Battery Equipment			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1830	Poles, Towers & Fixtures			\$ -	\$ 154,953,056		\$ 154,953,056	\$ 9,161,771		0.00%	41.00	2.44%	\$ -	\$ 3,779,343	\$ 111,729	\$ 3,891,072	\$ 3,870,235	-\$ 20,837
1835	Overhead Conductors & Devices			\$ -	\$ 156,402,845	\$ 260,755	\$ 156,142,090	\$13,334,739		0.00%	38.00	2.63%	\$ -	\$ 4,109,002	\$ 175,457	\$ 4,284,459	\$ 4,247,939	-\$ 36,520
1840	Underground Conduit			s -	\$ 265,746,630	\$ 646,304	\$ 265,100,326	\$22,225,040		0.00%	37.00	2.70%	\$ -	\$ 7,164,874	\$ 300,338	\$ 7,465,212	\$ 7,282,382	-\$ 182,830
1845	Underground Conductors & Devices			s -	\$ 225,345,749	\$ 1,604,583	\$ 223,741,166	\$21,007,287		0.00%	31.00	3.23%	\$ -	\$ 7,217,457	\$ 338,827	\$ 7,556,284	\$ 7,322,791	-\$ 233,493
1850	Line Transformers			s -	\$ 110,870,702	\$ 25,863	\$ 110,844,839	\$ 8,143,668		0.00%	31.00	3.23%	\$ -	\$ 3,575,640	\$ 131,349	\$ 3,706,989	\$ 3,638,351	-\$ 68,638
1855	Services (Overhead & Underground)			s -	\$ 80,060,350	\$ 44,179	\$ 80,016,171	\$ 4,563,872		0.00%	38.00	2.63%	\$ -	\$ 2,105,689	\$ 60,051	\$ 2,165,740	\$ 2,105,656	-\$ 60,084
1860	Meters			\$ -			\$ -	, , , , , , ,		0.00%		0.00%	s -	s -	s -	s -	, , , , , , , , , , , ,	s -
1860	Meters (Smart Meters)			s -	\$ 58.081.431	\$ 6.259.912	\$ 51.821.519	\$ 7.014.822		0.00%	13.00	7.69%	s -	\$ 3,986,271	\$ 269,801	\$ 4.256,072	\$ 4,261,148	\$ 5.076
1905	Land			s -	\$ 19,942,005	, ,,,	\$ 19,942,005	, ,,		0.00%		0.00%	s -	s -	s -	s -	\$ 4,047	
1908	Buildings & Fixtures			s -		\$ 445,220	\$ 94,911,100	\$ 1,594,802		0.00%	31.00	3.23%	s -	\$ 3,061,648	\$ 25.723	\$ 3,087,371	\$ 3,185,739	
1910	Leasehold Improvements			s -	*	,	S -	.,,		0.00%		0.00%	s -	s -	s -	s -	,,	\$ -
1915	Office Furniture & Equipment (10 years)			s -	\$ 4,521,062	\$ 879,564	\$ 3,641,498	\$ 75,574		0.00%	10.00	10.00%	\$ -	\$ 364,150	\$ 3,779	\$ 367,929	\$ 407,568	\$ 39,640
1915	Office Furniture & Equipment (5 years)			s -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		s -			0.00%		0.00%	s -	s -	s -	s -	,	\$ -
1920	Computer Equipment - Hardware			s -			\$ -			0.00%		0.00%	s -	s -	s -	\$.		s -
1920	Computer EquipHardware(Post Mar. 22/04)			s -			s -			0.00%		0.00%	s -	s -	s -	s -		s -
1920	Computer EquipHardware(Post Mar. 19/07)			s .	\$ 12,970,219	\$ 2,015,003	\$ 10,955,216	\$ 2,517,544		0.00%	6.00	16.67%	s -	\$ 1,825,869	\$ 209,795	\$ 2,035,665	\$ 2,172,161	\$ 136,496
1930	Transportation Equipment			\$.	\$ 23,294,547	\$ 3,685,023	\$ 19,609,524	\$ 5,223,986		0.00%	13.00	7.69%	s -	\$ 1,508,425	\$ 200,923	\$ 1,709,347	\$ 1,577,489	
1935	Stores Equipment			s -	\$ 560,703	\$ 0,000,020	\$ 560,703	\$ 0,220,000		0.00%	10.00	10.00%	s -	\$ 56,070	\$ -	\$ 56,070	\$ 56,224	
1940	Tools, Shop & Garage Equipment			s -		\$ 1,286,544	\$ 3,634,484	\$ 474,390		0.00%	10.00	10.00%	s -	\$ 363,448	\$ 23,720	\$ 387,168	\$ 441,144	
1945	Measurement & Testing Equipment			s .	\$ 209.467	\$ 5.974	\$ 203,493	Ų 11 1,000		0.00%	12.00	8.33%	s -	\$ 16,958	\$ -	\$ 16,958	\$ 16,697	
1950	Power Operated Equipment			\$.	\$ 1.505.307	\$ 131,713	\$ 1.373.594			0.00%	13.00	7.69%	s -	\$ 105,661	\$.	\$ 105,661	\$ 102,206	
1955	Communications Equipment			\$.	\$ 19,755,052	\$ 723,119	\$ 19,031,933	\$ 1.487.510		0.00%	9.00	11.11%	s -	\$ 2,114,659	\$ 82,639	\$ 2,197,299	\$ 2,060,745	
1955	Communication Equipment (Smart Meters)			\$ -	0 10,700,002	V 720,110	\$ -	0 1,401,010		0.00%	0.00	0.00%	s -	\$ 2,114,000	\$ 02,000	\$	\$ 2,000,710	\$ 100,004
1960	Miscellaneous Equipment			s -	\$ 212,362	\$ 150,806	\$ 61,556	\$ 307,972		0.00%	10.00	10.00%	s -	\$ 6,156	\$ 15,399	\$ 21,554	\$ 30,554	\$ 9,000
1970	Load Management Controls Customer Premises			s -	\$ 212,302	\$ 150,000	\$ 01,550	\$ 350,910		0.00%	10.00	10.00%	s -	\$ 0,130	\$ 17,546	\$ 17,546	\$ 17,545	
1975	Load Management Controls Utility Premises			s -	\$		\$ -	\$ 203,443		0.00%	10.00	10.00%	\$ -	\$ -	\$ 10,172	\$ 17,546	\$ 10,172	
1980	System Supervisor Equipment				\$ 16 326 607	\$ 1,370,361	\$ 14,956,336	\$ 1,701,727		0.00%	12.00	8.33%	s -	\$ 1,246,361	\$ 70,905	\$ 1,317,267	\$ 1,292,876	
1985	Miscellaneous Fixed Assets			s -	10,020,097	\$ 1,070,001	\$ 14,930,330	\$ 1,701,727		0.00%	12:00	0.00%	\$ -	¢ 1,240,361	¢ 10,305	\$ 1,317,207	\$ 1,232,670	\$ 24,391
1990	Other Tangible Property			\$ -			s -			0.00%		0.00%	\$ -		s -	\$.		+ -
2440	Contributions & Grants			s -	-\$ 218.918.053		-\$ 218,918,053	-\$ 25,452,767		0.00%	30.00	3.33%	\$ -	-\$ 7.297.268	7	-\$ 7,721,481	-\$ 8.012.479	-\$ 290,998
1609	Capital Contributions Paid			-	\$ 86,819,324		\$ 86.819.324	\$ 210,000		0.00%	45.00	2.22%	\$ -	\$ 1,929,318	\$ 2,333	\$ 1,931,652	\$ 1,946,433	
1009		s -	s -			£ 45 447 907	\$ 1.474.367.516	,		0.00%	75.00	2.22/0	s -		\$ 2,333			\$ 14,781

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

- This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.
- 2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year's additions.
- A reactulation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years lies 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of 6 penetring balance of Asset A is 27 years (30 years lies 32 years) under 10 years of policy changes.
- 4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.
- OEB policy of the "half-year" rule the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.
- 6 The applicant must provide an explanation of material variances in evidence.
- 7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change
- 8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 3 Schedule 1 Attachment I UPDATED May 5, 2020

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UPDATED - Appendix 2-C Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.		MIFRS

	Book Values						Service Lives				D	Depreciation Expense						
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated c = a-b	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated f = d-e	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change m = f/j	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
1611	Computer Software (Formally known as Account 1925)			s -	\$ 93.003.225	\$ 21,124,166		\$ 3.590.513		0.00%	8.00	12.50%	\$ -	\$ 8.984.882	\$ 224,407	\$ 9.209.289	\$ 9,194,054	
1612	Land Rights (Formally known as Account 1906)			\$ -	\$ 2,559,509	\$ 4		\$ 12,296		0.00%	39.00	2.56%	\$ -	\$ 65,628	\$ 158	\$ 65,786	\$ 60,014	,
1805	Land			\$ -	\$ 4,824,643		\$ 4,824,643			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1808	Buildings			\$ -	\$ 39,485,516	\$ 454,156	\$ 39,031,360	\$ 534,656		0.00%	43.00	2.33%	\$ -	\$ 907,706	\$ 6,217	\$ 913,923	\$ 994,934	\$ 81,011
1810	Leasehold Improvements			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1815	Transformer Station Equipment >50 kV			\$ -	\$ 152,607,887	\$ 1,975,414	\$ 150,632,473	\$ 3,602,046		0.00%	30.00	3.33%	\$ -	\$ 5,021,082	\$ 60,034	\$ 5,081,117	\$ 4,672,709	-\$ 408,408
1820	Distribution Station Equipment <50 kV			\$ -	\$ 158,510,732	\$ 5,850,976	\$ 152,659,756	\$ 4,126,157		0.00%	33.00	3.03%	\$ -	\$ 4,626,053	\$ 62,518	\$ 4,688,571	\$ 4,863,301	\$ 174,730
1825	Storage Battery Equipment			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1830	Poles, Towers & Fixtures			\$ -	\$ 163,801,124		\$ 163,801,124	\$ 9,876,018		0.00%	41.00	2.44%	\$ -	\$ 3,995,149	\$ 120,439	\$ 4,115,589	\$ 4,081,762	-\$ 33,827
1835	Overhead Conductors & Devices			\$ -	\$ 169,507,040	\$ 329,139	\$ 169,177,901	\$13,582,445		0.00%	38.00	2.63%	\$ -	\$ 4,452,050	\$ 178,716	\$ 4,630,766	\$ 4,586,713	-\$ 44,053
1840	Underground Conduit			\$ -	\$ 287,971,670	\$ 927,267	\$ 287,044,403	\$20,403,122		0.00%	37.00	2.70%	\$ -	\$ 7,757,957	\$ 275,718	\$ 8,033,675	\$ 7,783,016	
1845	Underground Conductors & Devices			\$ -	\$ 245,993,967	\$ 1,879,195	\$ 244,114,772	\$18,820,790		0.00%	31.00	0.0070	\$ -	\$ 7,874,670	\$ 303,561	\$ 8,178,231	\$ 7,871,614	
1850	Line Transformers			\$ -	\$ 118,793,803	\$ 77,452	\$ 118,716,351	\$ 7,823,557		0.00%	31.00	3.23%	\$ -	\$ 3,829,560	\$ 126,186	\$ 3,955,746	\$ 3,854,763	,
1855	Services (Overhead & Underground)			\$ -	\$ 84,624,222	\$ 44,179	\$ 84,580,043	\$ 4,595,931		0.00%	38.00	2.63%	\$ -	\$ 2,225,791	\$ 60,473	\$ 2,286,263	\$ 2,207,425	-\$ 78,838
1860	Meters			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1860	Meters (Smart Meters)			\$ -	\$ 63,967,085	\$ 12,660,967	,,	\$ 6,673,267		0.00%	13.00	7.69%	\$ -	\$ 3,946,624	\$ 256,664	\$ 4,203,289	\$ 3,930,943	-\$ 272,346
1905	Land			\$ -	\$ 19,942,005		\$ 19,942,005			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -	\$ 4,047	\$ 4,047
1908	Buildings & Fixtures			\$ -	\$ 96,951,122	\$ 458,254	\$ 96,492,868	\$ 352,679		0.00%	31.00	3.23%	\$ -	\$ 3,112,673	\$ 5,688	\$ 3,118,362	\$ 3,197,517	\$ 79,155
1910	Leasehold Improvements			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1915	Office Furniture & Equipment (10 years)			\$ -	\$ 4,596,636	\$ 974,302	\$ 3,622,334	\$ 50,383		0.00%	10.00	10.00%	\$ -	\$ 362,233	\$ 2,519	\$ 364,753	\$ 400,102	\$ 35,349
1915	Office Furniture & Equipment (5 years)			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1920	Computer Equipment - Hardware			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1920	Computer EquipHardware(Post Mar. 22/04)			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1920	Computer EquipHardware(Post Mar. 19/07)			\$ -	\$ 15,487,763	\$ 3,588,003	\$ 11,899,760	\$ 1,160,674		0.00%	7.00	14.29%	\$ -	\$ 1,699,966	\$ 82,905	\$ 1,782,871	\$ 2,042,539	V =00,000
1930	Transportation Equipment			\$ -	\$ 26,471,525	\$ 5,136,421	\$ 21,335,104	\$ 2,233,064		0.00%	11.00	9.09%	\$ -	\$ 1,939,555	\$ 101,503	\$ 2,041,058	\$ 1,991,963	
1935	Stores Equipment			\$ -	\$ 560,703		\$ 560,703			0.00%	10.00	10.00%	\$ -	\$ 56,070	\$ -	\$ 56,070	\$ 56,224	\$ 154
1940	Tools, Shop & Garage Equipment			\$ -	\$ 5,395,418	\$ 1,698,582	\$ 3,696,836	\$ 461,809		0.00%	10.00	10.00%	\$ -	\$ 369,684	\$ 23,090	\$ 392,774	\$ 442,658	
1945	Measurement & Testing Equipment			\$ - \$ -	\$ 209,467	\$ 119,814				0.00%	12.00		\$ -	\$ 7,471	\$ -	\$ 7,471	\$ 5,066	
1950 1955	Power Operated Equipment			, ·	\$ 1,505,307	\$ 325,124	\$ 1,180,183	\$ 115,377		0.00%	13.00	7.69%	\$ -	\$ 90,783	\$ 4,438	\$ 95,221	\$ 82,798	
	Communications Equipment			\$ -	\$ 21,242,562	\$ 967,826	\$ 20,274,736	\$ 874,903		0.00%	9.00	11.11%	\$ -	\$ 2,252,748	\$ 48,606	\$ 2,301,354	\$ 2,173,813	-\$ 127,541
1955 1960	Communication Equipment (Smart Meters) Miscellaneous Equipment			\$ - \$ -		\$ 166,402	\$ 353,932	\$ 16,787		0.00%	10.00	0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1960					\$ 520,334 \$ 350,910	\$ 166,402	\$ 353,932 \$ 350,910	a 16,787		0.00%	10.00	10.00%	\$ -	\$ 35,393 \$ 35,091		\$ 36,233 \$ 35,091	\$ 43,258 \$ 35.091	\$ 7,025
1970	Load Management Controls Customer Premises			\$ -	\$ 350,910 \$ 203,443		\$ 350,910			0.00%	10.00	10.00%	\$ -	\$ 35,091	\$ -	\$ 35,091	\$ 35,091 \$ 20,344	13 -
1975	Load Management Controls Utility Premises System Supervisor Equipment			\$ -	\$ 203,443 \$ 18,028,424	\$ 2,469,888	\$ 203,443 \$ 15,558,536	\$ 992,743		0.00%	12.00	8.33%	\$ -	\$ 1,296,545	\$ -	\$ 20,344	\$ 20,344	-\$ 0 -\$ 63.642
1985	Miscellaneous Fixed Assets			\$ -	φ 18,028,424	φ 2,409,000	\$ 15,556,556	φ 992,743		0.00%	12.00	0.00%	\$ -	\$ 1,296,545	\$ 41,364	\$ 1,337,909	φ 1,274,207	\$ 63,642
1990	Other Tangible Property			\$ -			\$ -			0.00%		0.00%	\$ -	s -	s -	\$ - \$ -		s -
2440	Contributions & Grants			\$ -	-\$ 243.771.082		-\$ 243.771.082	-\$21.345.516		0.00%	30.00	3.33%	•	-\$ 8.125.703	-\$ 355.759	-\$ 8.481.461	-\$ 8.806.490	
1609	Capital Contributions Paid				\$ 87.029.324		\$ 87.029.324	\$ 100,000		0.00%	45.00	2.22%	•	\$ 1,933,985	\$ 1.111	\$ 1.935.096	\$ 1,950,895	
1009	Total	s -	s -		, , .	\$ 61 227 F24	\$ 1,579,146,754	\$ 78,653,701		0.00%	45.00		\$ -		\$ 1,631,397	. ,,		-\$ 1,390,050
	I Utai				a 1,640,374,285	\$ 61,227,531	a 1,579,146,754	a /8,653,/01					• -	a 58,773,993	a 1,631,397	a 00,405,390	a 59,015,340	-\$ 1,390,050

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

- 1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.
- 2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year's additions.
- A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less sees) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is of externing to be 2 years (30 years less 3 years) under the revised capacity of the year of policy changes.
- The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.
- 5 OEB policy of the "half-year" rule the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.
- The applicant must provide an explanation of material variances in evidence.
- This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

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UPDATED - Appendix 2-C Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.		MIFRS

Book Values Service Lives Depreciation Expense Opening Net Book Value of Existing Assets as at Date of Policy Change Opening Gross Book Value of Depreciation Depreciation Net Amount of Life of Assets Acquired After Total Assets Acquired After Policy Change to be Expense per Depreciation Rate Assets Less Fully Less Fully rent Yea Assets Acquired After Policy urrent Yea Before Policy Change to be Assets Acquired ter Policy Change of Assets Existing Before Rate on New Existing Before Additions cquired After Policy Change rrent Yea epreciatio Additions Policy Change Policy Change Additions 5 Expense Depreciated Depreciated Policy Change 3 Column J c = a-b f = d- o i = 1/h k = 1/i q = p-o m = f/j n = g*0.5/j Computer Software (Formally known as Account 1925) 74,358,02 2,672,828 9,294,753 167,052 \$ 9,461,805 155,830 96.593.738 1612 Land Rights (Formally known as Account 1906 2.571.805 2,571,801 \$ 12.370 0.00% 39.00 2.56% 60,424 -\$ 5,678 \$ 65,944 \$ 159 \$ 66,102 \$ 1805 Land 4,824,643 0.00% 4,824,643 0.00% 1808 Buildings 930.941 43.00 10.825 \$ 930.622 \$ 1.019.266 \$ 88.644 40.020.172 \$ 468.898 \$ 39.551.274 0.00% 2.33% \$ \$ 919,797 \$ 1810 Leasehold Improvements 0.00% 0.00% \$ 1815 Transformer Station Equipment >50 kV 32 00 156 209 933 \$ 2 130 709 \$ 154 079 224 \$ 5 429 195 0.00% 3 13% \$ S 4.814.976 S 84.831 \$ 4.899.807 \$ 4.810.909 -\$ 88.898 1820 Distribution Station Equipment <50 kV 162.540.708 \$ 6.590.398 \$ 155.950.310 \$11,994,416 0.00% 34.00 2.94% \$ \$ 4.586,774 \$ 176,388 \$ 4.763,162 \$ 5.000,717 \$ 237,555 1825 Storage Battery Equipment 0.00% 0.00% 1830 Poles, Towers & Fixtures 173 363 439 \$ 173 363 439 \$ 8 186 322 0.00% 41.00 2 44% S \$ 4,228,377 \$ 99,833 \$ 4,328,210 \$ 4,291,482 -\$ 36,728 1835 Overhead Conductors & Devices 182.858.941 \$ 465,400 \$ 182,393,541 \$11.967.313 0.00% 38.00 2 63% \$ \$ 4,799.830 \$ 157.465 \$ 4,957.295 \$ 4,917.860 -\$ 39.435 1840 Underground Conduit \$ 1,225,613 \$ 307,149,179 \$18,547,382 0.00% 37.00 2.70% \$ 8,301,329 \$ 250,640 \$ 8,551,969 \$ 8,246,543 -\$ 305,426 308,374,792 1845 Underground Conductors & Devices \$ 2,230,916 \$ 262,224,772 17,644,613 0.00% 32.00 3.13% \$ 8,194,524 \$ 275,697 \$ 8,470,221 \$ 8,377,879 -\$ 92,342 1850 Line Transformers 126,396,793 \$ 240,236 \$ 126,156,557 \$ 7,349,154 0.00% 31.00 3.23% \$ 4,069,566 \$ 118,535 \$ 4,188,101 \$ 4,055,629 \$ 132,472 1855 Services (Overhead & Underground) 0.00% 89,220,153 44,179 89,175,974 4,435,769 39.00 2.56% \$ 2,286,563 \$ 56,869 \$ 2,343,432 \$ 2,312,462 -\$ 30,970 1860 Meters 0.00% 0.00% 1860 Meters (Smart Meters) 49.467.916 \$ 7,261,510 0.00% 7.14% 259,340 \$ 3,792,762 \$ 3,798,330 \$ 5,568 \$ 20,217,128 \$ \$ 3,533,423 \$ 1905 Land 19,942,005 19,942,005 0.00% 0.00% \$ 4,047 \$ 4,047 1908 Buildings & Fixtures 97.303.801 \$ 459,258 96.844.543 352,679 0.00% 31.00 3.23% \$ \$ 3,124,018 \$ 5.688 \$ 3.129.706 \$ 3.216.137 \$ 86.431 1910 Leasehold Improvements 0.00% 0.00% s 1915 Office Furniture & Equipment (10 years) 50,383 4 647 019 \$ 1 129 556 3 517 463 0.00% 10.00 10.00% S 351.746 S 2.519 \$ 354.265 \$ 394 788 \$ 40.523 1915 Office Furniture & Equipment (5 years) 0.00% 0.00% 1920 Computer Equipment - Hardware 0.00% 0.00% s 1920 Computer Equip.-Hardware(Post Mar. 22/04) 0.00% 0.00% \$ 1920 Computer Equip.-Hardware(Post Mar. 19/07) 16.648.437 \$ 5.507.530 \$ 11.140.907 \$ 887 744 0.00% 6.00 16.67% \$ \$ 1.856.818 \$ 73,979 \$ 1,930,797 \$ 1,973,655 \$ 42,859 1930 Transportation Equipment \$ 6,842,384 20,361,177 1,844,412 0.00% 10.00 10.00% \$ 2,036,118 \$ 92,221 \$ 2,128,338 \$ 2,033,557 27,203,561 \$ 94,781 1935 Stores Equipment 560.70 0.00% 10.00 10.00% \$ 56,070 \$ 56,225 1940 Tools, Shop & Garage Equipment \$ 2,099,310 3.757.91 464,863 0.00% 10.00 10.00% 375,792 \$ 23,243 \$ 399,035 452.760 \$ 53,725 1945 Measurement & Testing Equipment 209,467 \$ 213,881 4,414 0.00% 12.00 8.33% \$ 368 \$ 368 \$ 130 498 1950 Power Operated Equipment 1,620,684 376,611 1.244.073 0.00% 13.00 7.69% 95,698 95,698 \$ 87.380 8,318 22,117,465 \$ 1,255,667 1955 Communications Equipment 20,861,798 781,255 0.00% 10.00 10.00% \$ 2,086,180 \$ 39,063 \$ 2,125,243 \$ 2,136,078 \$ 10,835 1955 Communication Equipment (Smart Meters) 0.00% 0.00% \$ 1960 Miscellaneous Equipment 537.121 \$ 215,901 321.220 0.00% 10.00 10.00% \$ 32.122 \$ \$ 32,122 41,268 \$ 9,146 1970 Load Management Controls Customer Premis 350 910 350.910 0.00% 10.00 10.00% s 35.091 \$ S 35.091 S 35 091 1975 Load Management Controls Utility Premises 10.00 203 443 203 443 0.00% 10.00% \$ 20.344 \$ - \$ 20.344 S 20 344 -\$ 1980 System Supervisor Equipment 19.021.167 \$ 3 775 713 15 245 454 \$ 1.094.855 0.00% 14 00 7 14% \$ \$ 1.088.961 \$ 39 102 \$ 1 128 063 \$ 1 082 628 \$ 45 435 1985 Miscellaneous Fixed Assets 0.00% 0.00% \$ 1990 Other Tangible Property 0.00% 0.00% \$ 2440 Contributions & Grants 264.756.598 -\$ 264.756.598 -\$20 689 619 0.00% 30.00 3.33% \$ -\$ 8,825,220 -\$ 344,827 -\$ 9,170,047 -\$ 9,416,952 -\$ 246,905 1609 Capital Contributions Paid 87 129 324 87 129 324 \$ 2.130.000 0.00% 45.00 2.22% s \$ 1,936,207 \$ 23,667 \$ 1,959,874 \$ 1,958,654 -\$ 1,220 1,715,711,586 \$ 77,725,005 \$ 1,637,986,581 \$ 83,348,385 \$ 59,365,432 \$ 1,612,288 \$ 60,977,720 \$ 60,584,926 -\$ 392,794

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

- This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.
- 2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year's additions.
- 3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years is as 4 January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised Open and a support of the year of policy changes.
- 4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.
- OEB policy of the "half-year" rule the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.
- 6 The applicant must provide an explanation of material variances in evidence.
- 7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change
- This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

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Tab 3
Schedule 1
Attachment K
UPDATED
May 5, 2020

Accounting Page 1 of 1

2025

UPDATED - Appendix 2-C Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (after changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.		MIFRS

	Book Values						Service Lives				Depreciation Expense				1			
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated c = a-b	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated f = d-e	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy	Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
	Communication Configuration (Formally Income on	a	В	c = a-b	0	е	T = Q - 0	g	n	I = 1/n	J	K = 1/J	I = c/h	m = f/j	n = g*0.5/j	o = l+m+n	р	q = p-o
1611	Computer Software (Formally known as Account 1925)			s -	\$ 99,266,566	\$23,064,208	\$ 76,202,358	\$16,854,811		0.00%	8.00	12.50%	\$ -	\$ 9,525,295	\$ 1,053,426	\$ 10,578,720	\$ 11,048,698	\$ 469,978
1612	Land Rights (Formally known as Account 1906)			\$ -	\$ 2,584,175	\$ 4	\$ 2,584,171	\$ 12,376		0.00%	39.00	2.56%	\$ -	\$ 66,261	\$ 159	\$ 66,419	\$ 60,507	-\$ 5,912
1805	Land			\$ -	\$ 4,824,643		\$ 4,824,643	\$ 779,683		0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1808	Buildings			\$ -	\$ 40,951,113	\$ 493,054	\$ 40,458,059	\$ 1,416,046		0.00%	40.00	2.50%	\$ -	\$ 1,011,451	\$ 17,701	\$ 1,029,152	\$ 1,046,267	\$ 17,115
1810	Leasehold Improvements			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1815	Transformer Station Equipment >50 kV			\$ -	\$ 161,639,128	\$ 2,262,273	\$ 159,376,855	\$ 9,223,210		0.00%	32.00	3.13%	\$ -	\$ 4,980,527	\$ 144,113	\$ 5,124,639	\$ 5,003,121	-\$ 121,518
1820	Distribution Station Equipment <50 kV			\$ -	\$ 174,438,943	\$ 6,858,571	\$ 167,580,372	\$26,747,897		0.00%	35.00	2.86%	\$ -	\$ 4,788,011	\$ 382,113	\$ 5,170,123	\$ 5,417,445	\$ 247,322
1825	Storage Battery Equipment			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	\$ -	\$ -		\$ -
1830	Poles, Towers & Fixtures			\$ -	\$ 181,236,058		\$ 181,236,058	\$ 8,003,940		0.00%	41.00	2.44%	\$ -	\$ 4,420,392	\$ 97,609	\$ 4,518,001	\$ 4,462,353	-\$ 55,648
1835	Overhead Conductors & Devices			\$ -	\$ 194,595,710	\$ 562,686	\$ 194,033,024	\$11,674,276		0.00%	38.00	2.63%	\$ -	\$ 5,106,132	\$ 153,609	\$ 5,259,741	\$ 5,217,477	-\$ 42,264
1840	Underground Conduit			\$ -	\$ 326,922,174	\$ 1,696,920	\$ 325,225,254	\$18,528,470		0.00%	37.00	2.70%	\$ -	\$ 8,789,872	\$ 250,385	\$ 9,040,256	\$ 8,650,400	-\$ 389,856
1845	Underground Conductors & Devices			\$ -	\$ 281,741,232	\$ 2,700,678	\$ 279,040,554	\$17,532,469		0.00%	32.00	3.13%	\$ -	\$ 8,720,017	\$ 273,945	\$ 8,993,962	\$ 8,839,416	-\$ 154,546
1850	Line Transformers			\$ -	\$ 133,525,380	\$ 561,969	\$ 132,963,411	\$ 7,363,590		0.00%	32.00	3.13%	\$ -	\$ 4,155,107	\$ 115,056	\$ 4,270,163	\$ 4,226,186	-\$ 43,977
1855	Services (Overhead & Underground)			\$ -	\$ 93,655,922	\$ 50,484	\$ 93,605,438	\$ 4,429,274		0.00%	40.00	2.50%	\$ -	\$ 2,340,136	\$ 55,366	\$ 2,395,502	\$ 2,357,841	-\$ 37,661
1860	Meters			\$ -			\$ -			0.00%		0.00%	\$ -	s -	s -	\$ -		\$ -
1860	Meters (Smart Meters)			\$ -	\$ 75,943,039	\$ 24,306,431	\$ 51,636,608	\$ 6,783,965		0.00%	14.00	7.14%	\$ -	\$ 3,688,329	\$ 242,284	\$ 3,930,614	\$ 3,974,133	\$ 43,519
1905	Land			\$ -	\$ 19,942,005		\$ 19,942,005			0.00%		0.00%	s -	s -	s -	s -	\$ 4,047	\$ 4,047
1908	Buildings & Fixtures			\$ -	\$ 97,656,480	\$ 644,160	\$ 97,012,320	\$ 352,679		0.00%	31.00	3.23%	\$ -	\$ 3,129,430	\$ 5,688	\$ 3,135,118	\$ 3,204,028	\$ 68,910
1910	Leasehold Improvements			\$ -			\$ -			0.00%		0.00%	\$ -	\$ -	s -	\$ -		s -
1915	Office Furniture & Equipment (10 years)			\$ -	\$ 4,697,402	\$ 1,195,926	\$ 3,501,476	\$ 50,383		0.00%	10.00	10.00%	\$ -	\$ 350,148	\$ 2,519	\$ 352,667	\$ 392,323	\$ 39,656
1915	Office Furniture & Equipment (5 years)			\$ -			\$ -			0.00%		0.00%	\$ -	s -	\$ -	\$ -		\$ -
1920	Computer Equipment - Hardware			\$ -			\$ -			0.00%		0.00%	\$ -	s -	s -	\$ -		\$ -
1920	Computer EquipHardware(Post Mar. 22/04)			\$ -			\$ -			0.00%		0.00%	s -	s -	s -	s -		s -
1920	Computer EquipHardware(Post Mar. 19/07)			\$ -	\$ 17.536.181	\$ 6,482,634	\$ 11,053,547	\$ 1,573,599		0.00%	7.00	14.29%	s -	\$ 1,579,078	\$ 112,400	\$ 1,691,478	\$ 1,958,576	\$ 267,098
1930	Transportation Equipment			\$ -	\$ 28,100,981	\$ 8,025,548	\$ 20,075,433	\$ 467,753		0.00%	9.00	11.11%	\$ -	\$ 2,230,604	\$ 25,986	\$ 2,256,590	\$ 2,158,407	-\$ 98,183
1935	Stores Equipment			\$ -	\$ 560,703		\$ 560,703			0.00%	10.00	10.00%	\$ -	\$ 56,070	\$ -	\$ 56,070	\$ 56,224	\$ 154
1940	Tools, Shop & Garage Equipment			\$ -	\$ 6,322,090	\$ 2,415,709	\$ 3,906,381	\$ 468,679		0.00%	10.00	10.00%	\$ -	\$ 390,638	\$ 23,434	\$ 414,072	\$ 461,217	\$ 47,145
1945	Measurement & Testing Equipment			\$ -	\$ 209,467	\$ 214,417	-\$ 4,950			0.00%	10.00	10.00%	\$ -	-\$ 495	\$ -	-\$ 495	\$ 103	\$ 598
1950	Power Operated Equipment			\$ -	\$ 1,620,684	\$ 394,085	\$ 1,226,599	\$ 461,909		0.00%	16.00	6.25%	\$ -	\$ 76,662	\$ 14,435	\$ 91,097	\$ 89,388	-\$ 1,709
1955	Communications Equipment			\$ -	\$ 22,898,720	\$ 3,142,403	\$ 19,756,317	\$ 1,733,822		0.00%	11.00	9.09%	\$ -	\$ 1,796,029	\$ 78,810	\$ 1,874,839	\$ 1,885,121	\$ 10,282
1955	Communication Equipment (Smart Meters)			\$ -	, , , , ,		\$ -	, , , , , , ,		0.00%		0.00%	s -	s -	s -	s -	, ,,,,,	s -
1960	Miscellaneous Equipment			\$ -	\$ 537,121	\$ 220,993	\$ 316,128	\$ 24,987		0.00%	10.00	10.00%	s -	\$ 31,613	\$ 1,249	\$ 32,862	s 41.830	\$ 8,968
1970	Load Management Controls Customer Premises			\$ -	\$ 350,910		\$ 350,910	, , , , , , , , , , , , , , , , , , , ,		0.00%	10.00	10.00%	\$ -	\$ 35,091	\$ -	\$ 35,091	\$ 35,091	\$ -
1975	Load Management Controls Utility Premises			\$ -	\$ 203,443		\$ 203,443			0.00%	10.00	10.00%	\$ -	\$ 20,344	\$ -	\$ 20,344	\$ 20,344	-\$ 0
1980	System Supervisor Equipment			\$ -	\$ 20,116,022	\$ 4,768,457	\$ 15,347,565	\$ 1,533,324		0.00%	15.00	6.67%	\$ -	\$ 1,023,171	\$ 51,111	\$ 1,074,282	\$ 1,081,462	
1985	Miscellaneous Fixed Assets			\$ -	., .,	,,	\$ -	,,,		0.00%		0.00%	s -	s -	s -	\$ -	,,	s -
1990	Other Tangible Property			\$ -			\$ -			0.00%		0.00%	s -	s -	s -	s -		s -
2440	Contributions & Grants			\$ -	-\$ 285,076,217		-\$ 285,076,217	-\$20,758,380		0.00%	31.00	3.23%	s -	-\$ 9,196,007	-\$ 334,813	-\$ 9,530,820	-\$ 9,805,553	-\$ 274,733
1609	Capital Contributions Paid			Ť	\$ 89,259,324		\$ 89.259.324	\$ 7,300,000		0.00%	45.00	2.22%	s -	\$ 1,983,541	\$ 81,111	\$ 2.064.652	\$ 2,013,783	
- 500		\$ -	s -	s -		\$ 90.061.610	\$ 1,706,197,790			0.0070			\$ -	. ,,.	\$ 2,847,695	. ,,		

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

- 1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.
- 2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year's additions.
- A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) as at January 1 of the year of policy changes.
- The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.
- 5 OEB policy of the "half-year" rule the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.
- The applicant must provide an explanation of material variances in evidence.
- This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change



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UPDATED PAYMENTS IN LIEU OF TAXES

2

1

3 1. INTRODUCTION

- 4 Hydro Ottawa is required to make Payments in Lieu of Taxes ("PILS") to the Ministry of Finance
- 5 based on its taxable income. Hydro Ottawa has used the Income Tax/PILS Workform (the "PILS
- 6 Tax Model") supplied by the OEB for 2020 Cost of Service Applications Filers to calculate the
- 7 PILS for each of the 2021-2025 Test Years.

8

- 9 The amount of PILS included in the revenue requirements for each of the 2021-2025 Test Years
- 10 is summarized in Table 1, as updated below. The OEB Income Tax/PILS Workforms for the
- 11 2021-2025 Test Years are appended to this Schedule as the following UPDATED Attachments:

12

- UPDATED Attachment 4-4-1(D): OEB Workform 2021 Income Tax/PILS Workform
- UPDATED Attachment 4-4-1(E): OEB Workform 2022 Income Tax/PILS Workform
- UPDATED Attachment 4-4-1(F): OEB Workform 2023 Income Tax/PILS Workform
- **UPDATED** Attachment 4-4-1(G): OEB Workform 2024 Income Tax/PILS Workform
- UPDATED Attachment 4-4-1(H): OEB Workform 2024 Income Tax/PILS Workform



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Table 1 – AS ORIGINALLY SUBMITTED – Corporate PILS for Test Years 2021-2025 (\$'000s)

Test Year	Income Taxes/PILS Grossed Up
2021	\$1,024
2022	\$5,211
2023	\$8,766
2024	\$11,660
2025	\$7,689

3

5

6

1

2

Table 1 – UPDATED FOR 2019 ACTUALS – Corporate PILS for Test Years 2021-2025 (\$'000s)

Test Year	Income Taxes/PILS Grossed Up
2021	\$2,224
2022	\$3,881
2023	\$8,604
2024	\$11,533
2025	\$7,590

7

8 No modifications have been made to the PILS Tax Models, with the exception of the following:

9

 Capital Cost Allowance ("CCA") has been calculated using the new Accelerated Investment Incentive rules ("accelerated CCA") for all Test Years 2021-2025. (See section 6 below for more details on the new rules).

1314

15

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1112

However, for Tab T8 "Sch 8 CCA Test," the limitation of those schedules in Tab 8 required that the accelerated CCA be adjusted manually for Test Years 2024 and 2025 only. Hydro Ottawa has included supplemental Schedule 8 worksheets for Test Years



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2024 and 2025 to support the CCA calculations in the PILS Tax Models (please see UPDATED Attachment 4-4-1(I): 2024 Schedule 8 Capital Cost Allowance and UPDATED Attachment 4-4-1(J): 2025 Schedule 8 Capital Cost Allowance.

4

5 2. PRUDENT MANAGEMENT OF PILS/TAXES

6 Hydro Ottawa exercises sound tax planning and manages its tax costs diligently in order to 7 minimize these costs. As required, the utility maximizes tax deductions and takes advantage of 8 available tax credits, such as apprentice tax credits, student co-op tax credits, and scientific 9 research and experimental development ("SR&ED") tax credits.

10

11 3. GENERAL METHODOLOGY

The methodology for calculating PILS is consistent with the principles set out in the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019. It is also consistent with the methodology employed in prior years. In addition, PILS calculations reflect applicable current tax legislation and regulatory changes, including the recent legislative tax changes to CCA in Bill C-97, which are further discussed in section 6 below.

18

For Test Years 2021-2025, Hydro Ottawa has used a combined income tax rate of 26.5%, which is comprised of a federal tax rate of 15.0% and a provincial tax rate of 11.5%. This rate is applied to Hydro Ottawa's regulatory taxable income determined through the PILS Tax Models to calculate income taxes payable before the deduction of tax credits. Applicable tax credits are then deducted to determine the Corporate PILS/Income Tax Provision for the given Test Year. This amount is then grossed up by the 1 - tax rate formula to determine the PILS component of the revenue requirement for each Test Year.



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1 4. LOSS CARRY-FORWARDS

2 Hydro Ottawa does not have any non-capital loss or capital loss carry-forwards as at the end of

3 December 2018. Furthermore, the utility has not forecast any loss carry-forwards for the

4 2021-2025 Test Years.

5

6 5. NON-DISTRIBUTION ASSETS/NON-RECOVERABLE EXPENSES

7 Hydro Ottawa has excluded any non-distribution assets in its PILS Tax Models. The utility also

8 confirms that non-recoverable expenses and expenses disallowed for regulatory purposes have

9 been excluded in the tax calculation.

10

11 6. CAPITAL COST ALLOWANCE

On June 21, 2019, Bill C-97 received Royal Assent. Bill C-97, the *Budget Implementation Act*, 2019, introduced changes to CCA, such as the new accelerated CCA rules. These rules allow enhanced first-year tax depreciation on eligible capital assets acquired and available for use after November 20, 2018. Under the accelerated CCA rules, Hydro Ottawa is able to deduct up to three times the amount of tax depreciation that would otherwise be available in the year that an asset is acquired and available for use. This is achieved by removing the "half-year" rule and then applying the prescribed CCA rate at 1.5 times on the net qualifying additions for the given year. This accelerated CCA is available for assets acquired and available for use after November 20, 2018 and before 2024.

21

A phase-out period will begin for property that becomes available for use after 2023. For assets acquired after 2023 and before 2028, the "half-year" rule is still not applied and the accelerated CCA rules will allow Hydro Ottawa to deduct tax depreciation that is two times the amount of tax depreciation that would otherwise apply in the year that an asset is acquired and available for use. The accelerated CCA rules will no longer be available for assets acquired after 2027.

27

28 Accelerated CCA does not change the total amount of CCA that Hydro Ottawa can deduct over

29 the tax life of the eligible capital assets. This accelerated CCA is only available to be claimed in



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1 the first tax year that the eligible capital assets are acquired and available for use. By claiming a

2 larger CCA deduction in the first year, Hydro Ottawa will have smaller CCA deductions available

3 in future years. The utility confirms that the accelerated CCA rules from Bill C-97 have been

4 applied in the PILS Tax Models for the 2021-2025 Test Years.

5

The regulatory taxable income in each Test Year includes forecasted CCA, which has been calculated using the accelerated CCA rules applicable in the Historical Years, Bridge Years, and in each Test Year. These forecasted CCA amounts are calculated using the estimated ending Undepreciated Capital Cost ("UCC") balance from the previous year as the opening balance and then adding the net capital additions to determine the UCC balance available for each Test Year. The "half-year" rule has not been applied in each of the 2021-2025 Test Years on net qualifying additions. The accelerated CCA rules allow Hydro Ottawa to deduct three times the amount of tax depreciation that would otherwise apply on qualifying new assets for the 2021, 2022, and 2023 Test Years. These rules also allow Hydro Ottawa to deduct two times the amount of tax depreciation that would otherwise apply on qualifying new assets for the 2024 and 2025 Test Years. Using the new accelerated CCA rules, the maximum allowable CCA has

18

19 7. TAX CREDITS – APPRENTICES & CO-OP STUDENTS

been deducted for all Test Years 2021-2025.

As in previous years, Hydro Ottawa continues to claim the Federal Apprenticeship Job Creation
Tax Credit and the Ontario Co-operative Education Tax Credit. The Federal Apprenticeship Job
Creation Tax Credit is 10% of salaries and wages paid to eligible apprentices, up to a maximum
of \$2,000 per year per apprentice for the first two years of the apprenticeship contract. The
Ontario Co-operative Education Tax Credit is 25% of eligible expenditures up to a maximum of
\$3,000 per student per year.

26

The Ontario Apprenticeship Training Tax Credit is no longer available and has not been included in Test Years 2021-2025. This credit was available during the first 36 months of the apprentice



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- 1 program for programs that commenced before November 15, 2017. The 2020 Bridge Year is
- 2 forecasted as the last year in which Hydro Ottawa can claim this credit.

3

- 4 Hydro Ottawa has forecasted the Federal Apprenticeship Job Creation and Ontario
- 5 Co-operative Education Tax Credits available and has deducted these tax credits in the PILS
- 6 Tax Models for the Test Years 2021-2025, as summarized in Table 2 and Table 3 below.

7

8

Table 2 – Total Federal Apprenticeship Job Creation and Ontario Co-operative Education Tax Credits for 2021-2025

9

Year	Federal Apprenticeship Tax Credit	Ontario Apprenticeship Tax Credit	Ontario Co-op Education Tax Credit	Total Tax Credits Claimed
2021	\$4,000	\$0	\$81,000	\$85,000
2022	\$4,000	\$0	\$81,000	\$85,000
2023	\$4,000	\$0	\$81,000	\$85,000
2024	\$4,000	\$0	\$81,000	\$85,000
2025	\$4,000	\$0	\$81,000	\$85,000

10

Table 3 – Federal Apprenticeship Job Creation Tax Credits for 2021-2025¹

Hirin	g Year	Tax Credits Received				
Year	Number Hired	2021	2022	2023	2024	2025
2020	2	2				
2021	0					
2022	2		2	2		
2023	0					
2024	2				2	2
2025	0					
TOTAL NUMBER OF CREDITS/YR		2	2	2	2	2
TOTAL \$\$ CREDITS/YR		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000

_

¹² ¹ As a guide for interpreting the information presented in this table, please see the explanation of the applicability of the Federal Apprenticeship Job Creation Tax Credit provided in section 7 on page 45 of this Schedule.



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- 1 The Ontario Co-operative Education Tax Credit for each of the Test Years 2021-2025 has been
- 2 calculated by forecasting that 27 eligible co-op students will be hired per Test Year, with a tax
- 3 credit per student of \$3,000 (i.e. total credits of \$81,000 per Test Year).

4

5 8. TAX CREDITS – SCIENTIFIC RESEARCH & EXPERIMENTAL DEVELOPMENT

- 6 Hydro Ottawa first filed SR&ED tax credits for the 2017 tax year. The 2017 SR&ED tax credits
- 7 have been assessed but not audited. For the Test Years 2021-2025, the SR&ED tax credits
- 8 have been forecasted based on the 2017 SR&ED tax calculations, as outlined in Table 4 below.
- 9 The forecasted SR&ED tax credits have been reflected as a reduction in the capital
- 10 expenditures and/or operations and maintenance ("O&M") expenses in each Test Year.

11 12

Table 4 - Total SR&ED Tax Credits for 2021-2025

Year	SR&ED Credit Capital	SR&ED Credit O&M	SR&ED Credit Total
2021	\$360,000	\$90,000	\$450,000
2022	\$340,000	\$90,000	\$430,000
2023	\$230,000	\$60,000	\$290,000
2024	\$390,000	\$100,000	\$490,000
2025	\$480,000	\$120,000	\$600,000

13

14 9. **INTEGRITY CHECKS**

15 The following integrity checks have been completed in respect of the PILS Tax Models:

1617

- Depreciation and amortization added back agrees with the numbers disclosed in the rate base section of the Application.
- Capital additions and deductions agree with the rate base section for Historical Years,
 Bridge Years, and Test Years.



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- Schedule 8 of the most recent tax return year filed with the Application has a closing
 December 31 UCC balance that agrees with the opening historical year UCC balance at
 January 1.
 - Non-distribution assets have been removed from the PILS Tax Models.
- The CCA deductions in the PILS Tax Models for Historical Years, Bridge Years, and Test Years agree with the numbers in Schedule 8.
- Other post-employment benefits and pension expenses are added back on Schedule 1.
- The income tax rate used to calculate the tax expense is consistent with the current legislated rate.
 - The maximum allowable CCA has been deducted for all Test Years 2021-2025.

11

10

4

12 10. PILS VARIANCES

- 13 Details of the actual taxes paid by Hydro Ottawa from 2016-2018, as well as the forecasted
- 14 taxes to be paid for 2019 and 2020, are summarized in Table 5, as updated below. Expected
- 15 PILS for the 2021-2025 rate period are set out in Table 6, as updated below. In addition,
- 16 explanations of the variances that appear in either table are provided.

17

- 18 Copies of Hydro Ottawa's tax returns are appended to this Schedule as the following
- 19 Attachments:

- Attachment 4-4-1(A): 2016 Tax Return
- Attachment 4-4-1(B): 2017 Tax Return²
- Attachment 4-4-1(C): 2018 Tax Return

Attachment 4-4-1(B): 2017 Tax Return includes both the originally filed tax return as well as the amended return for
 the SR&ED claim.



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Table 5 - AS ORIGINALLY SUBMITTED - Corporate PILS Paid/Payable for 2016-2020

(\$'000s) 2

	2016 Actual	2017 Actual	2017 Amended	2018 Actual	2019 Bridge Grossed Up	2020 Bridge Grossed Up
Income Taxes	\$3,452	\$3,594	\$2,245	\$4,192	\$1,644	\$2,362

Table 5 – UPDATED FOR 2019 ACTUALS – Corporate PILS Paid/Payable for 2016-2020

(\$'000s) 5

	2016 Actual	2017 Actual	2017 Amended	2018 Actual	2019 Actual Grossed Up	2020 Bridge Grossed Up
Income Taxes	\$3,452	\$3,594	\$2,245	\$4,192	\$2,775	\$1,394

Table 6 - AS ORIGINALLY SUBMITTED - Corporate PILS (Grossed Up) for 2021-2025 (\$'000s)

	2021	2022	2023	2024	2025
Income Taxes	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689

Table 6 - UPDATED FOR 2019 ACTUALS - Corporate PILS (Grossed Up) for 2021-2025 10 (\$'000s)

	2021	2022	2023	2024	2025
Income Taxes	\$2,224	\$3,881	\$8,604	\$11,533	\$7,590

13 The decrease/increase in PILS from year to year is generally due to changes in capital additions 14 and the associated CCA deductions available compared to the accounting depreciation add 15 back (see section 7 above). Net income before tax is also a contributor to the amount of PILS in 16 a given year.



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1 2020 Bridge Year to 2021 Test Year

- 2 As submitted in Hydro Ottawa's original Application, 2021 PILS is forecast to decrease mainly
- 3 due to higher CCA deduction available, driven by the large amount of fixed asset additions
- 4 placed into service in 2021.

5

- 6 However, with the updates to the 2021 Test Year that are based in large part on 2019 actuals,
- 7 PILS is forecast to increase mainly due to higher income and accounting depreciation add back,
- 8 driven by the large amount of fixed asset additions placed into service in 2021.

9

10 2021 Test Year to 2022 Test Year

- 11 As submitted in the utility's original Application, 2022 PILS is forecast to increase mainly due to
- 12 a higher accounting depreciation add back and a lower accelerated CCA deduction, due to
- 13 lower fixed asset additions in 2022 which is creating the higher taxable income.

14

- 15 With the updates to the 2022 Test Year, PILS is forecast to increase mainly due to a higher
- 16 income and accounting depreciation add back, driven by the large amount of fixed asset
- 17 additions placed into service in 2022.

18

19 2022 Test Year to 2023 Test Year

- 20 Similarly, the 2023 PILS<mark>, as originally submitted,</mark> is forecast to increase due to higher
- 21 accounting depreciation and a lower accelerated CCA deduction due to lower fixed asset
- 22 additions in 2023.

- 24 With the updates to the 2023 Test Year, PILS is forecast to increase mainly due to a higher
- 25 income, higher accounting depreciation add back and a lower accelerated CCA deduction due
- 26 to lower fixed asset additions in 2023.



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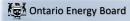
1 2023 Test Year to 2024 Test Year

- 2 2024 PILS is forecast to increase due to higher accounting depreciation and less accelerated
- 3 CCA deduction available. This is attributable to the change in the accelerated CCA rules for
- 4 assets added after 2023 and before 2028. The ability to apply the prescribed CCA rate for an
- 5 eligible class by 1.5 times the net addition is removed beginning in 2024. The suspension of the
- 6 half-year rule continues to stay in effect until the end of 2027.

7

8 2024 Test Year to 2025 Test Year

- 9 2025 PILS is forecast to decrease due to an increase in the accelerated CCA deduction
- 10 available driven by the large amount of fixed asset additions placed into service in 2025. As in
- 11 2024, the CCA deduction is smaller in 2025 than it is in 2021-2023, as a result of the rule
- 12 change in 2024.



Version 1.10



Note: Drop-down lists are shaded blue; Input cells are shaded green.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your rate application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assigning you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Instructions

Purpos

The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab To and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology

To calculate the PILs for the Test Year:

- 1) input the balances from the income tax return of the Historical Year in tabs H1 to H13. 2) input the balances for the Bridge Year and the Test Year. Inputs should include:
- non-deductible expenses (Schedule 1 B1 and T1)
- loss carryforward (Schedule 4 B4 and T4)
- capital cost allowance (Schedule 8 B8 and T8)
- non-deductible reserves (Schedule 13 B13 and T13)
- 3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes

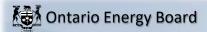
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

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Income Tax/PILs Workform for 2020 Filers Page 2 of 21

1. Info

S. Summary

A. Data Input Sheet

B. Tax Rates & Exemptions

Historical Year H0 - PILs, Tax Provision Historical Year

H1 - Adj. Taxable Income Historical Year

H4 - Schedule 4 Loss Carry Forward Historical Year

H8 - Schedule 8 Historical

H13 - Schedule 13 Tax Reserves Historical

Bridge Year <u>B0 - PILs,Tax Provision Bridge Year</u>

B1 - Adj. Taxable Income Bridge Year

B4 - Schedule 4 Loss Carry Forward Bridge Year

B8 - Schedule 8 CCA Bridge Year

B13 - Schedule 13 Tax Reserves Bridge Year

Test Year To PILs, Tax Provision Test Year

T1 Taxable Income Test Year

T4 Schedule 4 Loss Carry Forward Test Year

T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

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Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference	
Adjustments assumed to emble at template in a con-	as below	27 226 262
Adjustments required to arrive at taxable income		-37,226,363
Test Year - Payments in Lieu of Taxes (PILs)	<u>T0</u>	1,634,688
Test Year - Grossed-up PILs	<u>T0</u>	2,224,065
Effective Federal Tax Rate	<u>T0</u>	15.0%
Effective Ontario Tax Rate	<u>T0</u>	11.5%
Calculation of Adjustments required to arrive at Taxable Income		
Regulatory Income (before income taxes)	<u>T1</u>	43.715.750
Taxable Income	T1	6,489,387
Difference	calculated	-37,226,363 as above

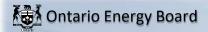
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Income Tax/PILs Workform for 2020 Filers

Integrity Checks

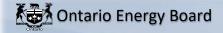
The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	ltem	Utility Confirmation (Y/N)	Notes
	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Υ	
	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year		
	UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
3			
	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed	V	
4	in the application	'	
5	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7	CCA is maximized even if there are tax loss carry-forwards	Y	
	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A		
	analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario	Y	
8	reports, and actuarial valuations.		
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Υ	



			Test Year	Bridge Year	
Rate Base		s	\$ 1,230,736,211	\$ 1,161,334,543	
Return on Ratebase					
Deemed ShortTerm Debt %	4.00%	Т	\$ 49,229,448	W = S * T	
Deemed Long Term Debt %	56.00%	U	\$ 689,212,278	X = S * U	
Deemed Equity %	40.00%	V	\$ 492,294,484	Y = S * V	
Short Term Interest Rate	2.75%	Z	\$ 1,353,810	AC = W * Z	
Long Term Interest	3.35%	AA	\$ 23,088,611	AD = X * AA	
Return on Equity (Regulatory Income)	8.88%	AB	\$ 43,715,750	$AE = Y * AB$ $\underline{T1}$	
Return on Rate Base			\$ 68,158,171	AF = AC + AD + AE	

Questions that must be answered	Historical Year	Bridge Year	Test Year
1. Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? If Yes, please describe the tax treatment in the manager's summary.	Yes	Yes	Yes
8. Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No



Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax General Corporate Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
Federal Tax Abatement Adjusted Federal Rate	-10.00% 28.00%	-10.00% 28.00%	-10.00% 28.00%	-10.00% 28.00%	-10.00% 28.00%	-10.00% 28.00%
Rate Reduction Federal Income Tax	-13.00% 15.00%	-13.00% 15.00%	-13.00% 15.00%	-13.00% 15.00%	-13.00% 15.00%	-13.00% 15.00%
Ontario Income Tax	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
Combined Federal and Ontario	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business Federal Small Business Limit Ontario Small Business Limit	500,000 500,000	500,000 500,000	500,000 500,000	500,000 500,000	500,000 500,000	500,000 500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

Notes

- 1. The Ontario Energy Board's proxy for taxable capital is rate base.
- 2. Regarding the small business deduction, if applicable,
 - a. If taxable capital exceeds \$15 million, the small business rate will not be applicable.
 - b. If taxable capital is below \$10 million, the small business rate would be applicable.
 - c. If taxable capital is between \$10 million and \$15 million, the appropriate small business rate will be calculated.

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Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

Regulatory Taxable Income Combined Tax Rate and PILs

Ontario Tax Rate (Maximum 11.5%) Federal tax rate (Maximum 15%) Combined tax rate (Maximum 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits
Total Tax Credits

Corporate PILs/Income Tax Provision for Historical Year

Wires Only

\$ 8,327,201 **A**

11.50%

15.00%

В

С

26.50% **D = B+C**

\$ 2,206,708 E = A * D

\$ 167,000 F

G G

\$ 167,000 H = F + G

\$ 2,039,708 I = E - H



Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal	Non-Distribution	Historic
Income before PILs/Taxes	(A + 101 + 102)	8,302,970	Eliminations	Wires Only 38,302,970
Additions: Interest and penalties on taxes	103	5,000		5,000
Amortization of tangible assets	104	49,071,826		49,071,826
Amortization of intangible assets Recapture of capital cost allowance from Schedule 8	106 107			0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108			0
Loss in equity of subsidiaries and affiliates Loss on disposal of assets	110 111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2	112	1,000,000		0
Taxable capital gains from Schedule 6 Political contributions	113 114			0
Deferred and prepaid expenses	116			0
Scientific research expenditures deducted on financial statements Capitalized interest	118 119			0
Non-deductible club dues and fees	120			0
Non-deductible meals and entertainment expense Non-deductible automobile expenses	121 122	85,000		85,000
Non-deductible life insurance premiums	123			0
Non-deductible company pension plans Tax reserves deducted in prior year	124 125	2,367,712		2,367,712
Reserves from financial statements – balance at the end of the year	126	3,183,844		3,183,844
Soft costs on construction and renovation of buildings Capital items expensed	127 206			0
Debt issue expense	208			0
Development expenses claimed in current year	212 216			0
Financing fees deducted in books Gain on settlement of debt	220			0
Non-deductible advertising Non-deductible interest	226 227			0
Non-deductible legal and accounting fees	228			0
Recapture of SR&ED expenditures	231 235			0
Share issue expense Write down of capital property	235			0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237			0
Other additions				<u> </u>
Interest Expensed on Capital Leases	295 295			0
Realized Income from Deferred Credit Accounts Pensions	295	780,000		780,000
Non-deductible penalties	295 295			0
	295			0
ARO Accretion expense				0
Capital Contributions Received (ITA 12(1)(x)) Lease Inducements Received (ITA 12(1)(x))				0
Deferred Revenue (ITA 12(1)(a))				0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received		167,000		167,000
		,		0
				0
				0
				0
				0
				0
Total Additions		56,660,382	(56,660,382
Deductions:				
Gain on disposal of assets per financial statements	401			0
Non-taxable dividends under section 83 Capital cost allowance from Schedule 8	402 403	78,432,619		78,432,619
Terminal loss from Schedule 8	404	70,102,010		0
Allowable business investment loss Deferred and prepaid expenses	406 409			0
Scientific research expenses claimed in year	411			0
Tax reserves claimed in current year Reserves from financial statements - halance at beginning of year	413 414	2,367,712 3,183,844		2,367,712 3,183,844
Reserves from financial statements - balance at beginning of year Contributions to deferred income plans	416	680,000		680,000
Book income of joint venture or partnership Equity in income from subsidiary or affiliates	305 306			0
Other deductions				
Interest capitalized for accounting deducted for tax Capital Lease Payments	395 395			0
Non-taxable imputed interest income on deferral and variance accounts	395			0
	395 395			0
ARO Payments - Deductible for Tax when Paid	395			0
ITA 13(7.4) Election - Capital Contributions Received ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds				0
Deferred Revenue - ITA 20(1)(m) reserve				0
Principal portion of lease payments Lease Inducement Book Amortization credit to income				0
Financing fees for tax ITA 20(1)(e) and (e.1)				0
Scientific Research & Experimental Development Expenses		1,971,976		1,971,976
				0
				0
				0
				0
Total Deductions		86,636,151	(
Nat Income for Tay Purposes			(
Net Income for Tax Purposes	1	8,327,201		8,327,201
Charitable donations from Schedule 2	311			0
Taxable dividends received under section 112 or 113	320			0
Non-capital losses of previous tax years from Schedule 4 Net capital losses of previous tax years from Schedule 4	331 332			0
Limited partnership losses of previous tax years from Schedule 4	335			0
TAXABLE INCOME		8,327,201	(8,327,201

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Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Total	Non- Distribution Portion	Utility Balance	
Actual Historical			0	<u>B4</u>
Net Capital Loss Carry Forward Deduction	Total	Non- Distribution Portion	Utility Balance	
Actual Historical			0	B4

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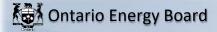


Income Tax/PILs Workform for 2020 Filers

Schedule 8 - Historical Year

Class	Class Description	_	ICC End of Year rical per tax returns		Less: Non-Distribution Portion	UCC	Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	\$	152,595,540	\$	811,249	\$	151,784,291
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	\$	86,552,953	\$	1,059,152	\$	85,493,801
2	Distribution System (acq'd pre 1988)	\$	46,603,349			\$	46,603,349
3	Buildings (acq'd pre 1988)	\$	5,323,389			\$	5,323,389
6	Certain Buildings; Fences					\$	-
8	General Office Equipment, Furniture, Fixtures	\$	14,027,959			\$	14,027,959
10	Motor Vehicles, Fleet	\$	3,238,737			\$	3,238,737
10.1	Certain Automobiles					\$	-
12	Computer Application Software (Non-Systems)	\$	284,047			\$	284,047
13 ₁	Lease #1					\$	-
13 ₂	Lease # 2					\$	-
13 3	Lease # 3					\$	-
13 4	Lease # 4					\$	-
14	Limited Period Patents, Franchises, Concessions or Licences					\$	-
14.1	Eligible Capital Property (acg'd pre 2017)	\$	10.026.318			\$	10,026,318
14.1	Eligible Capital Property (acq'd post 2016)	\$	14,019,093			\$	14,019,093
17	Elec. Generation Equip. (Non-Bldng, acg'd post Feb 27/00); Roads, Lots, Storage	\$	1,931,969			\$	1,931,969
42	Fibre Optic Cable	\$	5,389,223			\$	5,389,223
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment		-,,,,,,			\$	-
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	\$	404,792	\$	2,674	\$	402.118
45	Computers & System Software (acg'd post Mar 22/04 and pre Mar 19/07)	\$	1,315	Ť	•	\$	1,315
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)					\$	
47	Distribution System (acq'd post Feb 22/05)	\$	576,454,523			\$	576,454,523
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	\$	1,604,403			\$	1,604,403
95	CWIP					\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
	SUB-TOTAL - UCC	T	918.457.610		1.873.075		916,584,53

B13 B13 B13 B13 B13 B13



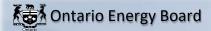
Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only
Capital gains reserves ss.40(1)			0
Tax reserves not deducted for accounting pu	ırposes		
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712
Reserve for undelivered goods and services no	t		0
rendered ss. 20(1)(m)			0
Reserve for unpaid amounts ss. 20(1)(n)			0
Debt & share issue expenses ss. 20(1)(e)			0
Other tax reserves			0
			0
			0
			0
			0
			0
Total	2,367,712	0	2,367,712
Financial Statement Reserves (not deductibl	e for Tax Purposes)		
General reserve for inventory obsolescence			0
(non-specific)			
General reserve for bad debts	3,183,844		3,183,844
Accrued Employee Future Benefits:			0
- Medical and Life Insurance			0
-Short & Long-term Disability			0
-Accmulated Sick Leave			0
- Termination Cost			0
- Other Post-Employment Benefits			0
Provision for Environmental Costs			0
Restructuring Costs			0
Accrued Contingent Litigation Costs			0
Accrued Self-Insurance Costs			0
Other Contingent Liabilities			0
Bonuses Accrued and Not Paid Within 180			0
Days of Year-End ss. 78(4)			0
Unpaid Amounts to Related Person and Not			0
Paid Within 3 Taxation Years ss. 78(1)			
Other			0
_			0
			0
Total	3,183,844	0	3,183,844

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Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

Regulatory Taxable Income

	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate
Ontario (Max 11.5%)	11.5%	11.5%	\$ 499,872	11.5% B
Federal (Max 15%)	15.0%	15.0%	\$ 652,007	15.0% C

Combined effective tax rate (Max 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Bridge Year

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Wires Only

Reference

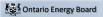
<u>B1</u> \$ 4,346,711 **A**

26.50% **D** = **B** + **C**

\$ 1,151,878 E = A * D

\$ 127,000 F G G H = F + G

\$ 1,024,878 I = E - H



Adjusted Taxable Income - Bridge Year

Income hefere Bil offeres	T2S1 line # (A + 101 + 102)	Working Paper Reference	Total for Regulated Utilit 41,715,13
Income before PILs/Taxes	(A + 101 + 102)		41,715,15
Additions: Interest and penalties on taxes	103		5,00
Amortization of tangible assets	104		51,070,62
Amortization of intangible assets Recapture of capital cost allowance from	106		
Schedule 8	107	<u>B8</u>	
Income inclusion under subparagraph 13(38)(d)(iii)	108		
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,00
Charitable donations and gifts from Schedule 2	112		1,000,00
Taxable capital gains	113		
Political contributions	114		
Deferred and prepaid expenses Scientific research expenditures deducted on	116		
financial statements	118		
Capitalized interest Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,00
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums Non-deductible company pension plans	123		
Tax reserves deducted in prior year	125	<u>B13</u>	2,367,71
Reserves from financial statements- balance at end of year	126	B13	3,183,84
Soft costs on construction and renovation of	127		
buildings Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt Non-deductible advertising	220 226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231		
Share issue expense	235 236		
Write down of capital property Amounts received in respect of qualifying			
environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	1	
Other Additions			
Interest Expensed on Capital Leases Realized Income from Deferred Credit	295		
Accounts	295		
Pensions Non-deductible penalties	295 295		780,00
	295		
ARO Accretion expense	295		
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Prior Telet investment Tax Credits received Current Year Investment Tax Credits received			127,00
			127,00
Current Year Investment Tax Credits received			
Current Year investment Tax Credits received			
Current Year Investment Tax Credits received For Additions Deductions Deductions Deductions Ording of Gross of Sastes per financial	401		
Current Year Investment Tax Credits received Fotal Additions Deductions: Cain or signated of assets per financial Divisionals not basile under section is	401 402		58,619,17
Courset Year Investment Tax Credits received Total Additions Deductions: Cain or disposal of assets per financial satements. Capital cost allowance from SC Acquisit cost and SC Acquisit cost allowance from SC Acquisit	402 403		58,619,17 87,527,86
Total Additions Total Additions Deductions Coloring to Standard	402 403 404 406	98 98 98	58,619,17 87,527,86
Courtent Year Investment Tax Credits received Fotal Additions Deductions: Cain or signated of assets per financial Divisional rot taxable under section IS Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss Deterred and prepared sepentees	402 403 404 406 409		58,619,17 87,527,86
Total Additions Total Additions Total Additions Total Additions Deductions: Cain or disposal of assets per financial solitentesis. Capital cost allowance from Schedule or Terminal loss from Schedule or Terminal lo	402 403 404 406 409 411	B8	58,619,17 58,619,17 87,527,86
Courtent Year Investment Tax Credits received Footal Additions Deductions Deductions Deductions Deductions Deductions Selections Selections Additions Deductions Selections Se	402 403 404 406 409 411 413	B8 B13	58,619,17 87.527,86
Courtent Year Investment Tax Credits received Fotal Additions Deductions: Gain on disposal of assets per financial sistements Sessional Session of assets per financial sistements Capital control of the session of Se	402 403 404 406 409 411 413	B8	58,619,17 87.527,86 2,367,71 3,183,84
Total Additions Deductions: Gain or disposa of assets per financial statements Statements Statements Terminal loss from Schedule 8 Terminal loss from Schedule 9 Terminal loss from Schedule 1 Terminal loss from Schedule 9 Terminal loss from	402 403 404 406 409 411 413 414	B8 B13	58,619,17 87.527,86 2,367,71 3,183,84
Courtent Year Investment Tax Credits received Fotal Additions Deductions: Gain on disposal of assets per financial sistements Sessional Session of assets per financial sistements Capital control of the session of Se	402 403 404 406 409 411 413	B8 B13	58,619,17 87.527,86 2,367,71 3,183,84
Total Additions Deductions: Gain or disposa of assets per financial statements Statements Statements Terminal loss from Schedule 8 Terminal loss from Schedule 9 Terminal loss from Schedule 1 Terminal loss from Schedule 9 Terminal loss from	402 403 404 406 409 411 413 414	B8 B13	58,619,17 87.527,86 2,367,71 3,183,84
Total Additions Deductions: Total Additions Deductions: Gain on disposals of assets per financial statements Deviced and the statements Dividends not taubile under section 83 Capital cost allowance from Schedule 8 Allowable business investment loss Deferred and prepaid depenses Scientific research persons control to the statements Tax reserves claimed in current year Tax reserves claimed in current year Tax reserves claimed in current year Total reserves claimed in current year Book income of joint venture or partnership Equil yin income from subsidiary or affisiates December of years of the partnership Equil yin income from subsidiary or affisiates	402 403 404 406 409 411 413 414 416 305 306	B8 B13	58,619,17 87.527,86 2,367,71 3,183,84
Total Additions Profest Additions Detections Total Additions Detections Detections Description Coal no disposal of assets per financial statements Dividends not stouble under section 83 Capital cost allowance from Schedule 8 Allowable business investment loss Detected and prayed expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - balance at behavior of year Tax reserves claimed in current year Reserves from financial statements - balance at behavior of year of the profession of year of year of years Reserves from financial statements - balance at behavior to greater a noone plans Book income of joint venture or pastmenthy Equily in income from subsidiary or affiliates Other deducations	402 403 404 406 409 411 413 414 416 305	B8 B13	58,619,17 87.527,86 2,367,71 3,183,84
Total Additions Deductions: Can of degree and additions Deductions: Can or disposal of assets per financial statements Statements Statements Defended and statements Statements Defended and statements Defended and propaid depended in statements Defended and propaid depended in statements Statements Statements Statements Defended and propaid depended in year Tax reserves claimed in current year Reserves from from statements bulence at beginning of year Contributions to deferred income plans Book income of joint venture or partnership Eguly in income from substidiary or affiliates Charle deductions Timered capitalized for accounting deducted for streams Terrents capitalized for accounting deducted for scapital statements.	402 403 404 406 409 411 413 414 416 305 306	B8 B13	58,619,17 87.527,86 2,367,71 3,183,84
Contract Year Investment Tax Credits received Total Additions Pedeutotions Tectal Additions Deviations Capital cost allowance from Schedule 8 Allowable business Investment loss Defired and pergland expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - balance at beginning of year Reserves from financial statements - balance at beginning of year Tax reserves claimed in current year Equity in income from subsidiary or affiliates Other deductions Timerest capitalized for accounting deducted for Capital Lease Phymners Application lease in Symphers Capital Lease Phymners Non-Issable importance in lease on on	402 403 404 406 409 411 413 414 416 305 306	B8 B13	58,619,17 87.527,86 2,367,71 3,183,84
Total Additions Deductions: Geductions: Ge	402 403 404 406 409 411 413 414 416 305 306	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Contract Year Investment Tax Credits received Total Additions Pedeutotions Tectal Additions Deviations Capital cost allowance from Schedule 8 Allowable business Investment loss Defired and pergland expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - balance at beginning of year Reserves from financial statements - balance at beginning of year Tax reserves claimed in current year Equity in income from subsidiary or affiliates Other deductions Timerest capitalized for accounting deducted for Capital Lease Phymners Application lease in Symphers Capital Lease Phymners Non-Issable importance in lease on on	402 403 404 406 409 411 413 414 416 305 306	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions Deductions Geductions Geduction Geduc	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per decident in the company of the compan	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Gold Additions Deductions: Gold Additions Deductions: Gold Not an experiment of the process	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions Descriptions Dividents of states per financial Dividents not statelle under section 18 Capital cost allowance from Schedule 9 Terminal tools from Schedule 9 Tax reserves Calimate from schedule 19 Tax reserves Calimate investment loss Defermed and prepale depended at beginning of teel Terminal control of terminal statements - balance at beginning of teel Carolisations of partnership Book income of joint venture or pathrership Development of terminal scheduler or difficults Other deductions Terminal variance accounts of control control or deferral and variance accounts Capital Losse Phymness Development Expension ARC Playments - Deductible for Tax when Plad Tit 13(74) Election - Apply Losse Inducement Tools of Lessenburgh - Apply Losse Inducement Tools of Lessenburgh - Apply Losse Inducement	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Control (Additions) Deductions: Cash on disposal of assets per financial statements Statements Cash on disposal of assets per financial statements Statements Devided not tabable under section 83 Copial cost allowers brown Standard 83 Deferred and prepaid expenses Deferred and prepaid expenses Deferred and prepaid expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from formacial statements – balance at beginning of year Contributions to deferred soccore plans Book income of joint venture or partnership Equity in income from subsidiary or affiliates Deferred and year partnership Interest capitalized for accounting deducted for face. The partnership interest capitalized for accounting deducted for face of the partnership in t	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Grain Additions Deductions: Grain Additions Deductions: Grain or disposal of assets per financial statements Deviced and the statements Grain or disposal of assets per financial statements Dividends not taubile under section 83 Capital cost allowance from Schedule 8 Allowable business investment loss Deferred and prepaid depenses Scientific research respirate days Tax reserves claimed in current year Tax reserves claimed in current year Tax reserves claimed in current year Contributions to deem comments. Juliance at bearings of vess scientific research expenses claimed in year Tax reserves claimed in current year Tax reserves claimed in current year Tax reserves claimed in current year the properties of the contributions of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements on the control of the contro	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Grain Additions Deductions: Grain Additions Deductions: Grain or disposal of assets per financial statements Deviced and the statements Grain or disposal of assets per financial statements Dividends not taubile under section 83 Capital cost allowance from Schedule 8 Allowable business investment loss Deferred and prepaid depenses Scientific research respirate days Tax reserves claimed in current year Tax reserves claimed in current year Tax reserves claimed in current year Contributions to deem comments. Juliance at bearings of vess scientific research expenses claimed in year Tax reserves claimed in current year Tax reserves claimed in current year Tax reserves claimed in current year the properties of the contributions of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements on the control of the contro	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements on the control of the contro	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements on the control of the contro	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements on the control of the contro	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements on the control of the contro	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	58,619,17 67,527,86 2,367,71 3,183,84 680.00
Total Additions Deductions: Total Additions Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements on the control of the contro	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	\$5,619,17 87,527,86 2,367,71 3,183,84 680,00
Total Additions Deductions: Can of deposic of assets per financial statements of a control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8 B13	\$7,527,86 87,527,86 2,367,71 3,183,84 680,00 2,228,18
Total Additions Deductions Geoductions Geoductions Geoductions Geoductions Geoductions Geoductions Geoductions Geoductions Dividents not standle under section 18 Deferred and prepaid expenses Geoductions Terminal tools from Scheducte Term	602 603 404 406 406 409 411 413 414 416 306 306 306 306 306 306	B8 B13	\$7,527,86 87,527,86 2,367,71 3,183,84 680,00 2,228,18
Total Additions Deductions Deductions Deductions Gain on disposal of assets per financial statements Gain on disposance from Schedule B Terminal loss from Schedule B Advosalsb business investment loss Deferred and prepaid expenses Calmid research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - businone at beginning of year Contributions to schedule or partnership Book income of joint venture or partnership Contributions to schedule or partnership Reserves from financial statements - businone Contributions to scheduler income plans Non-tassolae imputed income businos Contributions of Experimental Development Expenses ARO Payments - Deductible for Tax when Plad Th 13(74) Election - Capital Contributions Reserves Reserves Tin 20(1)(ei) and (e. 1) Financing fees for tax ITA 20(1)(e) and (e. 1) Total Deductions Not Income for Tax Purposes Thariable dividends received under section 112 or Parabelle dividends received under section 112 or	602 603 404 406 409 411 413 414 416 305 305 306 306 306 306 306 306 306 306 306 306	B8 B13	\$7,527,86 87,527,86 2,367,71 3,183,84 680,00 2,228,18
Total Additions Deductions: Grain of agessal of assets per financial Devicement of a second of a secon	692 693 494 496 499 411 413 414 416 305 305 306 306 306 306 306 306 306 306 307 307 307 308 308 308 308 308 308 308 308 308 308	BS B13	2,367,71 87,527,86 2,367,71 3,183,84 680,00 2,228,18
Total Additions Deductions Ceductions: Gain on disposal of assets per financial solitentes. Terminal tosis from Schedule a Terminal tosis from schedulery or patriership Explicit in come from subdidiety or difficults Other deductions Terminal tosis from subdidiety or difficults Other deduction or patriership Terminal tosis from subdidiety or difficults Other deductions ARO Payments - Deductible for Tax when Plad Ta 13(7-4) Biction - Capital Contributions Recisional Gain and Verilinos accounting ARO Payments - Deductible for Tax when Plad Ta 13(7-4) Biction - Capital Contributions Recisional Gaines Research - Apply Lease Inducement to cost of Lease/form - Apply Lease Inducement Total Deductions Net Innorme for Tax Purposes Tharizable deductions from Herminal Recision - Pages Inducement to cost of Lease/forminal Recision - Pages Inducement t	692 693 494 494 496 499 411 413 414 416 305 305 306 306 306 305 306 306 307 307 307 307 307 307 307 307 307 307	B8 S13 S13 S13 Cardined Cardined B4	2,367,71 3,183,84 690,00 2,228,18 4,346,71
Total Additions Deductions: Call of Additions Deferred and Additions Terminal loss from Schedule 8 Terminal loss from Schedule 8 Terminal loss from Schedule 8 Terminal loss from Schedule 9 Terminal loss from Schedule 9 Terminal loss from Schedule 9 Tax reserves for Immacrial statements - bulance at beginning of year Tax reserves for Immacrial statements - bulance at beginning of year Contributions to deferred income plans Book income of joint venture or partnership of the properties of the properties of the partnership of year of the partnership of	692 693 494 496 499 411 413 414 416 305 305 306 306 306 306 306 306 306 306 307 307 307 308 308 308 308 308 308 308 308 308 308	BS B13	127,00 58,619,17 67,527,86 2,367,71 3,183,84 680,00 2,228,18
Total Additions Deductions: Can of deposic of assets per financial statements East of the canada	692 693 494 494 496 499 411 413 414 416 305 305 306 306 306 305 306 306 307 307 307 307 307 307 307 307 307 307	B8 S13 S13 S13 Cardined Cardined B4	2,367,71 3,183,84 690,00 2,228,18 4,346,71

Hydro Ottawa Limited
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Exhibit 4
Tab 4
Schedule 1
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May 5, 2020
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Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year	<u>B1</u>	0
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	0
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

<u>T4</u>

Net Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year		
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

<u>T4</u>

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Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus column 3 plus column 5 minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIP (column 8 plus column 6 minus column 3 plus column 7 plus column 7 plus qual negative, enter "0")	(11) Net capital cost additions of AIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 5 plus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(18) UCC at the end of the bridge year (column 9 minus column 17)	Pa
-1	Buildings, Distribution System (acq'd post 1987)	H8	\$ 151,784,291							S 151,784,291	s .	s -	0.50	s -	s .	4%			S 6.071.372	\$ 145,712,919	19
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	H8	\$ 85,493,801	\$ 1,060,433	S 1.040.815					S 86.554.234		S 1.040.815	0.50		\$ 9,809	6%			\$ 5,223,890	\$ 81,330,344	
	Distribution System (acq'd pre 1988)	H8	\$ 46,603,349							\$ 46,603,349	\$ -	s -		s -	\$ -	6%			\$ 2,796,201	\$ 43,807,148	48
3	Buildings (acq'd pre 1988)	H8	\$ 5,323,389	1						\$ 5,323,389	\$ -	\$ -		\$ -	\$ -	5%			\$ 266,169	\$ 5,057,220	40
	Certain Buildings; Fences	H8	\$ -							s -	\$ -	s -	0.50			10%	,		s -	\$ -	
8	General Office Equipment, Furniture, Fixtures	H8	\$ 14,027,959							\$ 15,921,009		\$ 1,868,251	0.50			20%			\$ 3,368,547	\$ 12,552,462	
	Motor Vehicles, Fleet	H8 H8	\$ 3,238,737	\$ 180,773	\$ 180,773					\$ 3,419,510	\$ -	\$ 180,773	0.50			30%			\$ 1,052,969	\$ 2,366,54	
			\$ -							S -		s -	0.50		\$ -	30%			S -	\$ -	
	Computer Application Software (Non-Systems)	H8	\$ 284,047	\$ 10,232,520	\$ 10,232,520					\$ 10,516,567		\$ 10,232,520	0.00			100%			\$ 10,516,567	\$ -	
	Lease #1	H8	\$ -							\$ -		\$ -	0.00			NA				\$ -	_ '
13 2	Lease # 2	<u>H8</u>	\$ -							S -	-	\$ -	0.00			NA				\$ -	
13,	Lease #3	H8	\$ -							S -		s -	0.00			NA				\$ -	
	Lease # 4	<u>H8</u>	\$ -							s -		\$ -	0.00			NA				\$ -	
14	Limited Period Patents, Franchises, Concessions or Licences	H8	\$ 10.026.318							S 10.026.318	\$ -	s -	0.00		s -	NA				\$ 9324479	
	Eligible Capital Property (acq'd pre Jan 1, 2017)	H8	\$ 10,026,318		_					\$ 10,026,318 \$ 14,932,882		\$ -	0.50			7%			\$ 701,842 \$ 723,799	\$ 9,324,476	
	Eligible Capital Property (acq'd post Jan 1, 2017)	H8	\$ 14,019,093		s -					\$ 14,932,882 \$ 1,931,969		\$ -	0.50		\$ 456,895	5% 8%			\$ 723,799 \$ 154.558	\$ 14,209,083	
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage Fibre Optic Cable	H8	\$ 1,931,969							\$ 5,424,316			0.50			12%			\$ 154,558 \$ 648,812	\$ 1,777,41	
	Certain Clean Energy/Energy-Efficient Generation Equipment	H8 H8	\$ 5,369,223	\$ 35,093	3 -					\$ 5,424,316			2.33			30%			5 040,012 e	\$ 4,775,504	34
	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	\$ 402.118							\$ 402.118			1.00			50%			\$ 201.059	\$ 201.059	
45.2	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	H8	\$ 1,315							S 1.315		s -		s -		45%			\$ 592	\$ 72	
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	HB	\$ 1,310							\$ 1,310	š .	9 .	0.50			30%			\$.	9 /2	2.3
	Distribution System (acq'd post Feb 22/05)	H8	\$ 576,454,523	\$ 66,436,539	\$ 61.759.407					S 642.891.062	š -	\$ 61,759,407	0.50			8%			S 53.714.576	\$ 589,176,486	
	General Purpose Computer Hardware & Software (acc'd post Mar 18/07)	H8	\$ 1,604,403	\$ 1,459,982	\$ 1,459,982					\$ 3.064.385	s -	\$ 1,459,982	0.50		s -	55%			\$ 2.086,907	\$ 977,478	
95		H8	\$ -		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					S -	s -	S -	0.00			0%			S -	\$ -	-
		H8	\$ -							s -	\$ -	s -		s -	\$ -					\$ -	
		H8	\$ -							S -	\$ -	\$ -		\$ -	\$ -					\$ -	-
		H8	\$ -							s -	\$ -	s -		s -	\$ -					\$ -	
		H8	\$ -							S -	\$ -	s -		s -	\$ -					\$ -	
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		H8	\$ -							S -	\$ -	s -		s -						\$ -	
		H8	s -							s -	¥	ş -		s -	s -					\$ -	
		H8	\$ -						· ·	S -				\$ -	\$ -		,			\$ -	
	TOTALS		\$ 916,584,535	\$ 82,212,179	\$ 76,541,748	\$ -	\$ -	\$ -	\$ -	\$ 998,796,714	\$ -	\$ 76,541,748		\$ 33,154,614	\$ 2,835,215		\$ -	\$ -	\$ 87,527,860	B1 \$ 911,268,854	μ4



Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

						Bridge Year	Adjustments				
Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Additions	Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
							•				1
Capital gains reserves ss.40(1)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(I)	H13	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	<u>T13</u>	0	
Reserve for unpaid amounts ss. 20(1)(n)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Debt & share issue expenses ss. 20(1)(e)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Other tax reserves	<u>H13</u>	0		0				0	<u>T13</u>	0	
		0		0				0		0	
Total		2,367,712	0	2,367,712	<u>B1</u>	0	0	2,367,712	<u>B1</u>	0	C
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13		
General Reserve for Bad Debts	<u>піз</u> Н13	3.183.844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	H13	3,103,044		3,103,044					T13	0	
- Medical and Life Insurance	<u>піз</u> Н13	0		0	-			0	_	0	
- Short & Long-term Disability	H13	0		0				0	_	0	
- Accumulated Sick Leave	H13	0		0				0	_	0	
- Termination Cost	H13	0		0				Ÿ	T13	0	
- Other Post-Employment Benefits	H13	0		0					T13	0	
Provision for Environmental Costs	H13	0		0					T13	0	
Restructuring Costs	H13	0		0				0		0	
Accrued Contingent Litigation Costs	H13	0		0				0	T13	0	
Accrued Self-Insurance Costs	H13	0		0				0	T13	0	
Other Contingent Liabilities	H13	0		0				0	T13	0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Other	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		3,183,844	0	3,183,844	B1	0	0	3,183,844	B1	0	(



PILs Tax Provision - Test Year

Regulatory Taxable Income

Wires Only

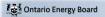
T1

6,489,387 **A**

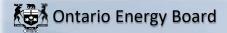
								+ -,,	
Tax Rate Sn	nall Business Ra (If Applicable)	ite Tax	es Payable Ef	fective Tax Ra	ate				
11.5%	11.5%	\$	746,280	11.5%	В				
15.0%	15.0%	\$	973,408	15.0%	С				
< 26.5%)								26.50% D = B + 0	;
								\$ 1,719,688 E = A * D	
								\$ 85,000 F	
								\$ - G	
								\$ 85,000 H = F + 0	i
sion for Test Yea	r							\$ 1,634,688 I = E - H	<u>S. Su</u>
n Gross Up ¹						73.50%	J = 1-D	\$ 589,377 K = I/J-I	
								\$ 2,224,065 L = K + I	<u>S. Su</u>
	11.5% 15.0% (26.5%)	(If Applicable) 11.5% 11.5% 15.0% 15.0% (26.5%)	(If Applicable) 11.5% 11.5% \$ 15.0% 15.0% \$ 3 (26.5%)	(If Applicable) 11.5% 11.5% \$ 746,280 15.0% \$ 973,408 (26.5%)	(If Applicable) 11.5% 11.5% \$ 746,280 11.5% 15.0% 15.0% \$ 973,408 15.0% (26.5%)	11.5% 11.5% \$ 746,280 11.5% B 15.0% 15.0% \$ 973,408 15.0% C	(If Applicable) 11.5%	(If Applicable) 11.5% 11.5% \$ 746,280 11.5% B 15.0% 15.0% \$ 973,408 15.0% C	(If Applicable) 11.5%

Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.



		Working Paper Reference	Test Year Taxable Income
Net Income Before Taxes		<u>A.</u>	43,715,750
Additions:	T2 S1 line #		
Interest and penalties on taxes Amortization of tangible assets	103		5,000
2-4 ADJUSTED ACCOUNTING DATA P489	104		52,776,147
Amortization of intangible assets 2-4 ADJUSTED ACCOUNTING DATA P490	106		
Recapture of capital cost allowance from Schedule 8	107	<u>T8</u>	(
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets Charitable donations	111		1,000,000
Taxable Capital Gains	113		
Political Donations Deferred and prepaid expenses	114		
Scientific research expenditures deducted on	118		
financial statements Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses Non-deductible life insurance premiums	122 123		
Non-deductible company pension plans	124	T13	2,367,712
Tax reserves beginning of year Reserves from financial statements- balance at	126	T13	3,183,844
end of year Soft costs on construction and renovation of		110	3,103,044
buildings	127		
Book loss on joint ventures or partnerships Capital items expensed	205		
Debt issue expense	208		
Development expenses claimed in current year	212	L	
Financing fees deducted in books Gain on settlement of debt	216		
Non-deductible advertising	226		
Non-deductible interest Non-deductible legal and accounting fees	227 228		
Recapture of SR&ED expenditures	231		
Share issue expense Write down of capital property	235 236		
Amounts received in respect of qualifying	237		
environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	231		
Other Additions Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,000
Non-deductible penalties	295 295		
	295		
	295 295		
ARO Accretion expense	200		
Capital Contributions Received (ITA 12(1)(x)) Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
			85,000
Prior Year Investment Tax Credits received Current Year Investment Tax Credits Received			85,000
			85,000
7			85,000
			85,000
Fotal Additions Deductions:			
Foral Additions Deductions: Gain or disposal of assets per financial statements	401		
Total Additions Deductions: Gain on disposal of assets per financial statements Dividends not assets per financial statements	402	T0	60,282,703
Fotal Additions Deductions: Gain on disposal of assets per financial statements Devidends not studies under section 83 Capital cost allowance from Schodule 8 Terminal loss from Schodule 8 Terminal loss from Schodule 8		T8 T8	60,282,703
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Total Additions Deductions: Gain on disposal of assets per financial statements Devisedes not tosoble under section 83 Capital cost allowance from Schrödule 8 Terminal loss from Schrödule 9 Terminal loss from Schrödule 9 Defirmed and prepaid expenses.	402 403 404 406 409 411		60,282,703 89,459,227
Fotal Additions Deductions: Gain on disposal of assets per financial statements. Dividends not baselies under section 83 Capital cost allowance from Chendels 8: Terrimoral case from Schedels 9: Terrimoral case from Schedels 9: Deferred and prepared separess Scientific research expenses. Scientific research expenses claimed in year Tar reserves and of year	402 403 404 406 409 411 413	T13	60,282,703 89,459,221 (
Total Additions Deductions: Claim or disposal of assets per financial statements Dividends not baselie under section 83 Terminal loss from Schedules 8 Allowells business meetiered loss Deferred and prepaid oppress Deferred and prepaid oppress Scientific research oppress damed in year Tan reserves and of year	402 403 404 406 409 411 413 414		60,282,703 89,459,227 (2,367,712 3,183,844
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Total Additions Deductions: Gain on disposal of assets per financial statements Deductions: Gain on disposal of assets per financial statements Deductions and statement for disposal of the Compiler of the C	402 403 404 406 409 411 413 414 416 305	T13	60,282,703 89,459,227 (2,367,712 3,183,844
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Total Additions Sedestinions Gain on disposal of assets per financial statements Dividends not tactable under section 83 Capital cost allowance from Schodule 8 Terminal loss from Schodule 8 Allowable business investment last Far reserves and of year Reserves from financial statements - bulance at beginning of year Far reserves and of year Reserves from financial statements - bulance at beginning of year Contributions to defined income plans ARO Payments - Deductible for Tax when Paid (TA 13/4) Electron - Apply Lease Inducement to cost of Leasebolds Deferred Revenue TA 20(1)(n) reserve Principal point on if these payments Principal point on if these payments	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T13	89,459,227 (2,367,712 3,183,844 680,000
Total Additions Sedestinions Gain on disposal of assets per financial statements Dividends not tactable under section 83 Capital cost allowance from Schodule 8 Terminal loss from Schodule 8 Allowable business investment last Far reserves and of year Reserves from financial statements - bulance at beginning of year Far reserves and of year Reserves from financial statements - bulance at beginning of year Contributions to defined income plans ARO Payments - Deductible for Tax when Paid (TA 13/4) Electron - Apply Lease Inducement to cost of Leasebolds Deferred Revenue TA 20(1)(n) reserve Principal point on if these payments Principal point on if these payments	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T13	89,459,227 (2,367,712 3,183,844 680,000
Total Additions Sedestinions Gain on disposal of assets per financial statements Dividends not tactable under section 83 Capital cost allowance from Schodule 8 Terminal loss from Schodule 8 Allowable business investment last Far reserves and of year Reserves from financial statements - bulance at beginning of year Far reserves and of year Reserves from financial statements - bulance at beginning of year Contributions to defined income plans ARO Payments - Deductible for Tax when Paid (TA 13/4) Electron - Apply Lease Inducement to cost of Leasebolds Deferred Revenue TA 20(1)(n) reserve Principal point on if these payments Principal point on if these payments	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T13	89,459,227 (2,367,712 3,183,844 680,000
Total Additions Sedestinions Gain on disposal of assets per financial statements Dividends not tactable under section 83 Capital cost allowance from Schodule 8 Terminal loss from Schodule 8 Allowable business investment last Far reserves and of year Reserves from financial statements - bulance at beginning of year Far reserves and of year Reserves from financial statements - bulance at beginning of year Contributions to defined income plans ARO Payments - Deductible for Tax when Paid (TA 13/4) Electron - Apply Lease Inducement to cost of Leasebolds Deferred Revenue TA 20(1)(n) reserve Principal point on if these payments Principal point on if these payments	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T13	89,459,227 (2,367,712 3,183,844 680,000
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Total Additions Debutchions: Glaim on disposal of assets per financial statements Disclending and a seeds per financial statements Disclending and a seed per financial statements Disclending and a seed per financial statements Disclending and the seed of th	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T13	69.459.275 69.459.227 2.267.712 3.183.844 680.000
Total Additions Debeutchions: Claim on disposal of assets per financial statements. Disclaims on disposal of assets per financial statements. Disclaims on disposal of assets per financial statements. Disclaims on the statement of the statements of the statement	402 403 404 406 409 413 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	89,000 60,282,763 89,459,222 2,367,713 3,183,844 680,000 1,818,283 1,818,284 680,000 97,509,664 6,469,383
Total Additions Debuscions: Can on disposal of assess per financial statements Dividends not basalte under section 83 Can on disposal of assess per financial statements Dividends not basalte under section 83 Terminal loss from Satientales 8 Allowalte basinates memberand los Deferred and prepad oppriess Deferred and prepad oppriess Tar reserves and of year Tar reserves and of year Tar reserves and of year Description of year Tar reserves and of year Description	402 403 404 406 409 413 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	69,282,761 89,459,227 2,367,713 3,183,844 680,000
Total Additions Decluctions: Gain on disposal of assets per financial statements Decluctions: Capital cost adjusted to a seed to per financial statements Declucing the statement of the statem	402 403 404 404 406 406 407 413 414 414 414 414 414 416 306 306 306 306 306 306 306 306 306 30	T13	69,282,761 89,459,227 2,367,713 3,183,844 680,000
Total Additions Decluctions: Gain on disposal of assets per financial statements Decluctions: Capita cost adjusted in the section 53 Capital cost allowance from Schedule 8 Through a statement of the Schedule 9 Tar reserves and of year Reserves from financial statements - balance at beginning of seal to be sea	402 403 403 404 406 409 409 411 413 414 414 414 416 306 306 305 305 305 305 305 305 305 305 305 305	T13 T13 Calculated	69,459,2276 69,459,227 2,367,711 3,163,844 680,000 1,816,285 97,509,664 6,489,361
Total Additions Debeutcions: Gain on disposal of assets per financial statements Disclared not statuble under section 83 Capital case discovers from Schoolea 8 Terminal loss from Schedule 8 Terminal loss from Schedule 8 Alfoudieb business investment loss Deferred and prepared expenses Schedule 9 Total reserves and of year Deferred and prepared expenses daimed in year Tax reserves and of year Dependency of the Schedule 9 Tax reserves and of year Dependency of year	402 403 404 404 406 409 409 411 413 414 414 416 306 306 395 395 395 395 395 395 395 395	T13	69,282,761 89,459,227 2,367,713 3,183,844 680,000



Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Non- Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years	<u>T1</u>	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	<u>T1</u>	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non- Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	<u>T1</u>	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

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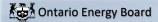


Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Cleas Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	during the year (new	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AllP (column 8 plus column 6 minus column 3 plus column 17 (if negative, enter "0")	(11) Net capital cost additions of AliP acquired during the year (cokumn 4 minus cokumn 10) (if negative, enter "0")	Relevant A	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AliP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(0)	(18) ICC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	B8	\$ 145,712,919							\$ 145,712,919	s -	\$.	0.50	\$.	\$ -	4%			\$ 5,828,517	\$	139,884,403
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8	\$ 81,330,344	1,077,498	1,077,498					\$ 82,407,842	s -	\$ 1,077,498	0.50	\$ 538,749	\$ -	6%			\$ 4,976,795	\$	77,431,046
	Distribution System (acq'd pre 1988)	B8	\$ 43,807,148							\$ 43,807,148				ş .	\$ -	6%			\$ 2,628,429	\$	41,178,719
	Buildings (acq'd pre 1988)	B8	\$ 5,057,220							\$ 5,057,220				ş .	s -	5%			\$ 252,861	\$	4,804,359
	Certain Buildings; Fences	B8	s -							s .	s -		0.50	s -	s -	10%			s -	\$	
	General Office Equipment, Furniture, Fixtures	B8	\$ 12,552,462		4,179,561					\$ 16,732,023			0.50		\$ -	20%			\$ 3,764,361	\$	
	Motor Vehicles, Fleet	B8	\$ 2,366,541	6,124,426	6,124,426					\$ 8,490,967			0.50		s -	30%			\$ 3,465,954	\$	
	Certain Automobiles	B8	s -								s -		0.50		s -	30%			s -	\$	
	Computer Application Software (Non-Systems)		s -	4,559,367	4,559,367					\$ 4,559,367			0.00			100%			\$ 4,559,367	\$	
	Lease #1		s -							\$.			0.00			NA				\$	
	Lease # 2		s -							\$.			0.00		\$ -	NA				\$	
	Lease #3	B8	\$ -							\$ -			0.00	\$.	\$ -	NA				\$	
	Lease # 4	B8	s -							\$.			0.00		\$ -	NA				\$	
	Limited Period Patents, Franchises, Concessions or Licences	B8	s -								s -		0.00			NA NA				\$	
	Eligible Capital Property (acq'd pre Jan 1, 2017)	B8	\$ 9,324,476							\$ 9,324,476				\$ -	\$ -	7%			\$ 652,713	\$	
	Eligible Capital Property (acq'd post Jan 1, 2017)	B8	\$ 14,209,083	51,229,464	51,229,464					\$ 65,438,547			0.50		\$ -	5%			\$ 4,552,664	\$	60,885,883
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	\$ 1,777,411							\$ 1,777,411			0.50	\$ -		8%			\$ 142,193	\$	1,635,219
	Fibre Optic Cable	B8	\$ 4,775,504	17,278	17,278					\$ 4,792,782			0.50		s -	12%			\$ 576,170	\$	4,216,611
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8	s -								\$ -		2.33		\$ -	30%			s -	\$	
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8	\$ 201,059							\$ 201,059			1.00	ş .	\$ -	50%			\$ 100,530	\$	100,530
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	B8	\$ 723							\$ 723				\$ -	s -	45%			\$ 325	\$	398
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	B8	s -								s -		0.50		\$ -	30%			s -	\$	
	Distribution System (acq'd post Feb 22/05)	<u>B8</u>	\$ 589,176,486	75,658,015	75,658,015					\$ 664,834,501	s -		0.50		\$ -	8%			\$ 56,213,081	\$	
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>	\$ 977,478	1,463,823	1,463,823					\$ 2,441,301			0.50	\$ 731,912	\$ -	55%			\$ 1,745,267	\$	696,034
95	CWIP	B8	s -							\$ -			0.00		\$ -	0%			s -	\$	
		<u>B8</u>	s -							\$ -				\$.						\$	
		B8	s -								s -			\$ -	\$ -					\$	
		B8	s -							\$.				\$.	s -					\$	
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		<u>B8</u>	\$ -								s -			\$ ·	\$ -					\$	
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			s -								s -			\$.	\$ -					\$	
1 1	TOTALS		\$ 911,268,854	\$ 144,309,432	\$ 144,309,432	\$ -	\$ -	\$ -	\$ -	\$ 1,055,578,286	\$ -	\$ 144,309,432	1 1	\$ 69,875,033	\$ -		\$ -	\$.	\$ 89,459,227	<u>I1</u> \$	966,119,059

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Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Offilinally of Reserves						Test Year A	djustments	1			
Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Additions	Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	<u>B13</u>	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(I)	<u>B13</u>	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	<u>B13</u>	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	<u>B13</u>	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	<u>B13</u>	0		0				0		0	
Other tax reserves	<u>B13</u>	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		2,367,712	0	2,367,712	<u>T1</u>	0	0	2,367,712	<u>T1</u>	0	0
Financial Statement Reserves (not deductible for Tax Purposes)	B.40										
General Reserve for Inventory Obsolescence (non-specific)	<u>B13</u>	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	<u>B13</u>	0		0				0		0	
- Medical and Life Insurance	<u>B13</u>	0		0				0		0	
-Short & Long-term Disability	<u>B13</u>	0		0				0		0	
-Accmulated Sick Leave	<u>B13</u>	0		0				0		0	
- Termination Cost	<u>B13</u>	0		0				0		0	
- Other Post-Employment Benefits	<u>B13</u>	0		0				0		0	
Provision for Environmental Costs	<u>B13</u>	0		0				0		0	
Restructuring Costs	<u>B13</u>	0		0				0		0	
Accrued Contingent Litigation Costs	<u>B13</u>	0		0				0		0	
Accrued Self-Insurance Costs	<u>B13</u>	0		0				0		0	
Other Contingent Liabilities	<u>B13</u>	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>B13</u>	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>B13</u>	0		0				0		0	
Other	<u>B13</u>	0		0				0		0	
		0		0				0		0	
	_	0		0				0		0	
Total		3,183,844	0	3,183,844	<u>T1</u>	0	0	3,183,844	<u>T1</u>	0	0



		Version	1.10
Utility Name	Hydro Ottawa Limited		
Assigned EB Number	EB-2019-0261		
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs		
Phone Number	613-738-5499,7472		
Email Address	RegulatoryAffairs@hydroottawa.com		
Date	ORIGINAL		
Last COS Re-based Year	2016		

Note: Drop-down lists are shaded blue; Input cells are shaded green.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your rate application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Instructions

The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab To and is based on the inputs on the other tabs

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

MethodologyTo calculate the PILs for the Test Year:

- 1) input the balances from the income tax return of the Historical Year in tabs H1 to H13.
- 2) input the balances for the Bridge Year and the Test Year. Inputs should include:
- non-deductible expenses (Schedule 1 B1 and T1)
 loss carryforward (Schedule 4 B4 and T4)
- capital cost allowance (Schedule 8 B8 and T8)
- non-deductible reserves (Schedule 13 B13 and T13)
- 3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes

```
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
```

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.



1. Info

S. Summary

A. Data Input Sheet

B. Tax Rates & Exemptions

Historical Year H0 - PILs, Tax Provision Historical Year

H1 - Adj. Taxable Income Historical Year

H4 - Schedule 4 Loss Carry Forward Historical Year

H8 - Schedule 8 Historical

H13 - Schedule 13 Tax Reserves Historical

Bridge Year <u>B0 - PILs,Tax Provision Bridge Year</u>

B1 - Adj. Taxable Income Bridge Year

B4 - Schedule 4 Loss Carry Forward Bridge Year

B8 - Schedule 8 CCA Bridge Year

B13 - Schedule 13 Tax Reserves Bridge Year

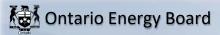
Test Year To PILs, Tax Provision Test Year

T1 Taxable Income Test Year

T4 Schedule 4 Loss Carry Forward Test Year

T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 4
Schedule 1
Attachment E
UPDATED
May 5, 2020
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Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference	
Adjustments required to arrive at taxable income	as below	-36,965,924
Test Year - Payments in Lieu of Taxes (PILs)	<u>T0</u>	2,852,191
Test Year - Grossed-up PILs	<u>T0</u>	3,880,532
Effective Federal Tax Rate	<u>T0</u>	15.0%
Effective Ontario Tax Rate	<u>T0</u>	11.5%
Calculation of Adjustments required to arrive at Taxable Income		
Regulatory Income (before income taxes)	<u>T1</u>	48,049,664
Taxable Income	<u>T1</u>	11,083,740
Difference	calculated	-36,965,924 as above

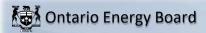
Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 4 Schedule 1 Attachment E UPDATED May 5, 2020 Page 4 of 21

Income Tax/PILs Workform for 2020 Filers

Integrity Checks

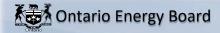
The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	ltem	Utility Confirmation (Y/N)	Notes
1	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
3	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed in the application	Y	
5	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7	CCA is maximized even if there are tax loss carry-forwards	Y	
8	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario reports, and actuarial valuations.	Y	
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Υ	



			Test Year	Bridge Year
Rate Base		S	\$ 1,315,708,216	\$ 1,230,736,211
Return on Ratebase				
Deemed ShortTerm Debt %	4.00%	Т	\$ 52,628,329	W = S * T
Deemed Long Term Debt %	56.00%	U	\$ 736,796,601	X = S * U
Deemed Equity %	40.00%	V	\$ 526,283,286	Y = S * V
Short Term Interest Rate	2.75%	Z	\$ 1,447,279	AC = W * Z
Long Term Interest	3.36%	AA	\$ 24,756,366	AD = X * AA
Return on Equity (Regulatory Income)	9.13%	AB	\$ 48,049,664	AE = Y * AB T1
Return on Rate Base			\$ 74,253,309	AF = AC + AD + AE

Questions that must be answered	Historical Year	Bridge Year	Test Year
Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? If Yes, please describe the tax treatment in the manager's summary.	Yes	Yes	Yes
Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

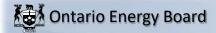


Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax General Corporate Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
Federal Tax Abatement	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
Adjusted Federal Rate	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
Federal Income Tax	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
Combined Federal and Ontario	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business						
Federal Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

Notes

- 1. The Ontario Energy Board's proxy for taxable capital is rate base.
- 2. Regarding the small business deduction, if applicable,
 - a. If taxable capital exceeds \$15 million, the small business rate will not be applicable.
 - b. If taxable capital is below \$10 million, the small business rate would be applicable.
 - c. If taxable capital is between \$10 million and \$15 million, the appropriate small business rate will be calculated.

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Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

Regulatory Taxable Income Combined Tax Rate and PILs

Ontario Tax Rate (Maximum 11.5%) Federal tax rate (Maximum 15%) Combined tax rate (Maximum 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Historical Year

Wires Only

•	4 346 711	۱,
φ	4,340,711	^

<u>H1</u>

В

С

11.50%

15.00%

\$	1,151,878	E = A * D
\$	127,000]F
\$	·-	G
\$	127,000	H = F + G

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Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

		Total for Legal	Non-Distribution	Historic
Income before PILs/Taxes	T2S1 line # (A + 101 + 102)	Entity 41,715,137	Eliminations	Wires Only 41,715,137
Additions:	(A + 101 + 102)	,		
Interest and penalties on taxes	103 104	5,000 51,070,621		5,00
Amortization of tangible assets Amortization of intangible assets	104	0		51,070,62
Recapture of capital cost allowance from Schedule 8	107	0		1
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10 Loss in equity of subsidiaries and affiliates	108 110	0		
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2	112 113	0		(
Taxable capital gains from Schedule 6 Political contributions	113	0		(
Deferred and prepaid expenses	116	0		(
Scientific research expenditures deducted on financial statements Capitalized interest	118 119	0		(
Non-deductible club dues and fees	120	0		(
Non-deductible meals and entertainment expense	121 122	85,000		85,000
Non-deductible automobile expenses Non-deductible life insurance premiums	123	0		
Non-deductible company pension plans	124	0		(
Tax reserves deducted in prior year Reserves from financial statements – balance at the end of the year	125 126	2,367,712 3,183,844		2,367,712 3,183,844
Soft costs on construction and renovation of buildings	127	0,103,644		3,103,04
Capital items expensed	206	0		(
Debt issue expense Development expenses claimed in current year	208 212	0		(
Financing fees deducted in books	216	0		(
Gain on settlement of debt	220	0		(
Non-deductible advertising Non-deductible interest	226 227	0		(
Non-deductible legal and accounting fees	228	0		(
Recapture of SR&ED expenditures Share issue expense	231 235	0		(
Share issue expense Write down of capital property	235	0		(
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		(
Other additions				
Interest Expensed on Capital Leases	295	0		(
Realized Income from Deferred Credit Accounts Pensions	295 295	780,000		780.000
Non-deductible penalties	295	780,000		780,000
Truit deduction periamos	295	0		(
	295	0		(
ARO Accretion expense Capital Contributions Received (ITA 12(1)(x))		0		(
Lease Inducements Received (ITA 12(1)(x))		0		
Deferred Revenue (ITA 12(1)(a))		0		(
Prior Year Investment Tax Credits received		127,000		127.000
Current Year Investment Tax Credits received		127,000		127,000
				Ċ
				(
				(
				· ·
				(
				(
Total Additions		58,619,177	(58,619,177
Deductions: Gain on disposal of assets per financial statements	401	0		
Non-taxable dividends under section 83	402	0		
Capital cost allowance from Schedule 8	403	87,527,860		87,527,860
Terminal loss from Schedule 8	404 406	0		(
Allowable business investment loss Deferred and prepaid expenses	409	0		
Scientific research expenses claimed in year	411	0		(
Tax reserves claimed in current year Reserves from financial statements - balance at beginning of year	413 414	2,367,712 3,183,844		2,367,712 3,183,844
Contributions to deferred income plans	416	680,000		680,000
Book income of joint venture or partnership	305	0		(
Equity in income from subsidiary or affiliates Other deductions	306	0		(
Interest capitalized for accounting deducted for tax	395	0		
Capital Lease Payments	395	0		(
Non-taxable imputed interest income on deferral and variance accounts Scientific Research & Experimental Development Expenses	395 395	0 2,228,187		2 228 187
розонино глозовногі ос ехренінента і ремаюрінент ехренізев	395	2,228,187		2,228,187
ARO Payments - Deductible for Tax when Paid	550	0		(
ITA 13(7.4) Election - Capital Contributions Received		0		(
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds Deferred Revenue - ITA 20(1)(m) reserve		0		
Principal portion of lease payments		0		(
Lease Inducement Book Amortization credit to income		0		(
Financing fees for tax ITA 20(1)(e) and (e.1)		0		
				(
				(
				(
				(
				(
Total Deductions		95,987,603	(95,987,603
		55,557,555		
Net Income for Tax Purposes	1	4,346,711		4,346,711
Charitable donations from Schedule 2	311	0		(
Taxable dividends received under section 112 or 113 Non-capital losses of previous tax years from Schedule 4	320 331	0		(
Net capital losses of previous tax years from Schedule 4	332	0		
Limited partnership losses of previous tax years from Schedule 4	335	0		(
				1
TAXABLE INCOME		4,346,711		4,346,7

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Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

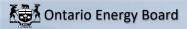
Non-Capital Loss Carry Forward Deduction	Total	Non- Distribution Portion	Utility Balance
Actual Historical			0

Non-Distribution Utility Balance
Net Capital Loss Carry Forward Deduction
Actual Historical 0

<u>B4</u>

<u>B4</u>

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Income Tax/PILs Workform for 2020 Filers

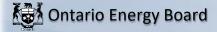
Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	\$ 145,712,919		\$ 145,712,919
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	\$ 81,330,344		\$ 81,330,344
2	Distribution System (acq'd pre 1988)	\$ 43,807,148		\$ 43,807,148
3	Buildings (acq'd pre 1988)	\$ 5,057,220		\$ 5,057,220
6	Certain Buildings; Fences	\$ -		\$ -
8	General Office Equipment, Furniture, Fixtures	\$ 12,552,462		\$ 12,552,462
10	Motor Vehicles, Fleet	\$ 2,366,541		\$ 2,366,541
10.1	Certain Automobiles	\$ -		\$ -
12	Computer Application Software (Non-Systems)	\$ -		-
13 ₁	Lease # 1	\$ -		\$ -
13 ₂	Lease # 2	\$ -		\$ -
13 ₃	Lease # 3	\$ -		\$ -
13 4	Lease # 4	\$ -		\$ -
14	Limited Period Patents, Franchises, Concessions or Licences	\$ -		\$ -
14.1	Eligible Capital Property (acq'd pre 2017)	\$ 9,324,476		\$ 9,324,476
14.1	Eligible Capital Property (acg'd post 2016)	\$ 14,209,083		\$ 14,209,083
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	\$ 1,777,411		\$ 1,777,411
42	Fibre Optic Cable	\$ 4,775,504		\$ 4,775,504
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ -		\$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ 201,059		\$ 201,059
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	\$ 723		\$ 723
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	\$ -		\$ -
47	Distribution System (acq'd post Feb 22/05)	\$ 589,176,486		\$ 589,176,486
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	\$ 977,478		\$ 977,478
95	CWIP	\$ -		\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
	SUB-TOTAL - UCC	911,268,854		911,268,85

B13 B13 B13 B13 B13

<u>B13</u>

B13 B13



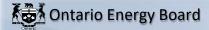
Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only
Capital gains reserves ss.40(1)			0
Tax reserves not deducted for accounting pur	rposes		
Reserve for doubtful accounts ss. 20(1)(I)	2,367,712		2,367,712
Reserve for undelivered goods and services not			0
rendered ss. 20(1)(m)			0
Reserve for unpaid amounts ss. 20(1)(n)			0
Debt & share issue expenses ss. 20(1)(e)			0
Other tax reserves			0
			0
			0
			0
Total	2,367,712	0	2,367,712
Financial Statement Reserves (not deductible	for Tax Purposes)		
General reserve for inventory obsolescence			0
(non-specific)			
General reserve for bad debts	3,183,844		3,183,844
Accrued Employee Future Benefits:			0
- Medical and Life Insurance			0
-Short & Long-term Disability			0
-Accmulated Sick Leave			0
- Termination Cost			0
- Other Post-Employment Benefits			0
Provision for Environmental Costs			0
Restructuring Costs			0
Accrued Contingent Litigation Costs			0
Accrued Self-Insurance Costs			0
Other Contingent Liabilities			0
Bonuses Accrued and Not Paid Within 180			0
Days of Year-End ss. 78(4)			
Unpaid Amounts to Related Person and Not			0
Paid Within 3 Taxation Years ss. 78(1)			
Other			0
			0
Total	3,183,844	0	3,183,844

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Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

Regulatory Taxable Income

Tax Rate Small Taxes Effective Tax Rate Payable Business Rate (If Applicable) Ontario (Max 11.5%) 11.5% 11.5% \$ 746,280 11.5% В Federal (Max 15%) 15.0% 15.0% \$ 973,408 15.0% С

Combined effective tax rate (Max 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Bridge Year

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Wires Only

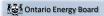
Reference

<u>B1</u> \$ 6,489,387 **A**

26.50%	n –	Rт	r

\$ 1,719,688	E = A * D
\$ 85,000	F
\$ -	G
\$ 85,000	H = F + G

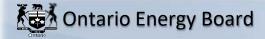
\$ 1,634,688 I = E - H



Adjusted Taxable Income - Bridge Year

	T2S1 line #	Working Paper	Total for Regulated Utilis
Income before PILs/Taxes	(A + 101 + 102)	Reference	43,715,75
Additions: Interest and penalties on taxes	103		5,00
Amortization of tangible assets Amortization of intangible assets	104		52,776,14
Recapture of capital cost allowance from Schedule 8	106	<u>B8</u>	
Income inclusion under subparagraph 13(38)(d)(iii)	108		
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,0
Charitable donations and gifts from Schedule 2 Taxable capital gains	112 113		
Political contributions	114		
Deferred and prepaid expenses Scientific research expenditures deducted on	116		
financial statements Capitalized interest	119		
Non-deductible club dues and fees Non-deductible meals and entertainment	120		85.0
expense Non-deductible automobile expenses	122		00,0
Non-deductible life insurance premiums Non-deductible company pension plans	123 124		
Tax reserves deducted in prior year Reserves from financial statements- balance at	125	B13	2,367,7 3,183,8
end of year Soft costs on construction and renovation of	126	<u>B13</u>	3,183,84
buildings Capital items expensed	127 206		
Debt issue expense	208		
Development expenses claimed in current year Financing fees deducted in books	212 216		
Gain on settlement of debt Non-deductible advertising	220		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures Share issue expense	231 235		
Write down of capital property Amounts received in respect of qualifying	236		
environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions Non-deductible penalties	295 295		780,0
	295 295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x)) Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received			85,01
Prior Year Investment Tax Credits received			85,01
Prior Year Investment Tax Credits received			85,0
Prior Year Investment Tax Credits received			85,0
Prior Year Investment Tax Credits received			85,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received			
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions:			
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Obdications Cain on disposal of assets per financial statements	401		
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Total Additions T	401 402 403	B8	60,282,7
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial sistements Condens a studies under section 52 Condens at studies under section 53 Condens at studies 54 Co	402 403 404	B6 B8	60,282,7
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial Gain on disposal of assets per financial Total Additions Deductions: Gain on disposal of assets per financial Total Additions Services on the Services of the Se	402 403 404 406 409		60,282,7
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions: Cain on disposal of assets per financial statements Dividend not basels under section 53 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Terminal loss from Schedule 8 Collection and prepaid cognitions Celemical and prepaid cognitions Scientific research exprises claimed in year	402 403 404 406 409 411	<u>B8</u>	60,282,7
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Obditions Cain on disposal of assets per financial statements Dividence on disposal of assets Dividence on disposal of assets Terminal toos from Schedule 8 Allowable business investment loss Deferred and prepala disportance Scientific researches claimed in purer year Tax reserves claimed in current year Reserves from financial statements - balance	402 403 404 406 409	<u>B8</u>	60,282,7 ¹ 89,459,2 2,367,7
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial Gain on disposal of assets per financial Total Additions Deductions: Cann on disposal of assets per financial Gain on disposal of assets per financial Total Additions Cann on disposal of assets per financial Cann of the disposal of	402 403 404 406 409 411 413 414 416	<u>B8</u>	60,282,7 89,459,2 2,967,7 3,183,8
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deadcritions: Coan on disposal of assets per financial sistements Ovidence on disposal of assets per financial sistements Ovidence on taxable under section is Ovidence on taxable under section is Ovidence on taxable under section is Allowable business investment loss Defender and pragular dependes Scientific research expertess claimed in year Tax researce facilité on current que Reserves from financial sistements - belance Reserves from financial sistements - belance Reserves from financial sistements - belance	402 403 404 406 409 411 413 414	<u>B8</u>	60,282,7 89,459,2 2,967,7 3,183,8
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Fortal Additions Deductions: Cain on disposal of assets per financial sistements Session and Session of S	402 403 404 406 409 411 413 414 416	<u>B8</u>	60,282,7 89,459,2 2,967,7 3,183,8
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Debuctions Debuctions Debuctions Debuctions Control of the Control of Control	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,967,7 3,183,8
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Tax reserved to the Credit Tax reserved from Credits Tax reserved from Credit Tax reser	402 403 404 406 409 411 413 414 416 305	<u>B8</u>	60,282,7 89,459,2 2,967,7 3,183,8
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions: Casin on disposal of assets per financial sistements Capital control of the control	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,967,7 3,183,8
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Tax reserved to the Credit Tax reserved from Credits Tax reserved from Credit Tax reser	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions: Casin on disposal of assets per financial sistements Capital control of the control	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received December 1	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Current Year Investment Tax Credits received Deductions: Gean on disposal of assets per financial Common temporal programment of the common Common temporal programment of the common Common temporal programment of the common Common temporal programment of Common temporal programment of	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Quirrent Year Investment Tax Credits received Prior Tax Credits received Deductions: Canin on disposal of assets per financial subtements: Canin on disposal of assets per financial subtements: Canin on disposal of assets per financial subtements: Capital cost allowance from Schedule 8: Tax minute loss of Schedule 8: Allowable business investment loss Deferred and prepared expenses. Scientific research expenses claimed in year Tax researchs: Canina di current year Reserves from financial statements - balance at beginning of year the properties of the properties Contributions to deterred income plans Book income of prior worker or patriorably. Equity in income from subsidiary or affiliates. Other deductions The serves capitalized for accounting deducted for Capital Lease Phyments. ARO Payments - Deductible for Tax when Paid TA 13(7.4) Election - Capital Contributions ARO Payments - Deductible for Tax when Paid TA 13(7.4) Election - Capital Contributions Received Tax Alloy (Ingression - April Lease Inducement (TA 13(7.4) Election - April Lease Inducement Professor Capital Lease Payments - April Lease Payments	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
For I Additions Courtent Veral Investment Tax Circelits received For I Additions Deductions: Coan on disposal of assets per financial statements Can on disposal of assets per financial statements Capital coan disposal of assets per financial statements Capital coan disposal of assets per financial statements Capital coan disposal of assets per financial statements Capital Lead of a coan disposal Contributions to deferred nonce plans Contributions to deferred	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Current Year Investment Tax Credits received Programment Tax Section 18 (1997). The Programment Tax Credits Received Programment Tax Credits Received Programment Tax Reserves Emitted Incomer to Justice Programment Tax Reserves Emitted Incomer to Justice Programment Tax Reserves Emitted Incomer to Justice Programment Progr	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Deductions: Tax Credits received Deductions: Committee Tax Credits received Common originated of seasons per financial Deductions: Committee Tax Credits (Committee Tax Committee Tax Committ	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Deductions: Tax Credits received Deductions: Committee Tax Credits received Common originated of seasons per financial Deductions: Committee Tax Credits (Committee Tax Committee Tax Committ	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Deductions: Tax Credits received Deductions: Committee Tax Credits received Common originated of seasons per financial Deductions: Committee Tax Credits (Committee Tax Committee Tax Committ	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Deductions: Tax Credits received Deductions: Committee Tax Credits received Common originated of seasons per financial Deductions: Committee Tax Credits (Committee Tax Committee Tax Committ	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Current Year Investment Tax Credits received Programment Control of Control o	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,7 89,459,2 2,367,7 3,183,8 680,0
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Current Year Investment Tax Credits received Prior to the Court of the Co	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,71 89,459,21 2,967,7 3,183,8 680,01
Prior Year Investment Tax Credits received Ourrent Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial Capital cost allowance from Schedule 8 Allowable business investment loss Defended and prepared adjustment of the Capital Cost allowance from Schedule 8 Allowable business investment loss Defended and prepared adjustment of the Capital Cost and Capi	402 403 404 406 409 411 413 414 416 305 306	<u>B8</u>	60,282,71 89,459,21 2,967,7 3,183,8 680,01
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Year Year Year Year Year Year Year Year	602 603 604 606 606 609 411 413 414 416 416 305 305 306 306 306 306 306 306 306 306	<u>B8</u>	60,282,71 89,459,21 2,967,7 3,183,8 680,01
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Current Year Investment Tax Credits received Prior Tax Received Prior Tax Credits Received Prior Tax Prior Tax Received Prior Tax Received Prior Tax Prior Tax Received Prior Tax Prior Tax Prior Tax State Prior Tax State Prior Tax Prior Tax Prior Tax Prior Tax Received Prior Tax Prior Tax Prior Tax Received Prior Tax Prior	602 603 604 604 606 609 411 413 414 416 306 306 306 306 306 306 306 306 306 30	<u>B8</u>	60,282,71 89,459,21 2,967,7 3,183,8 680,01
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Year Year Year Year Year Year Year Year	902 903 904 406 409 409 413 416 306 306 306 306 306 306 306 30	B13 B13 B13 Girduined	60,282,71

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Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

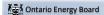
Non-Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year	<u>B1</u>	0
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	0
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

<u>T4</u>

Net Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year		
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

<u>T4</u>

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Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for decilining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(18) UCC at the end of the bridge year (column 9 minus column 17)
	Buildings, Distribution System (acq'd post 1987)	H8	\$ 145,712,919	\$ -	s -	\$ -	\$ -	\$ -	\$ -	\$ 145,712,919	\$ -	s -	0.50	s -	\$ -	4%			\$ 5,828,517	\$ 139,884,403
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	H8	\$ 81,330,344	\$ 1,077,498	\$ 1,077,498	\$ -	\$ -	\$ -	\$ -	\$ 82,407,842		\$ 1,077,498	0.50	\$ 538,749	\$ -	6%			\$ 4,976,795	\$ 77,431,046
	Distribution System (acq'd pre 1988)	H8	\$ 43,807,148			\$ -	ş -	\$ -	\$ -			s -		s -		6%			\$ 2,628,429	\$ 41,178,719
	Buildings (acq'd pre 1988)	H8	\$ 5,057,220			\$ -	ş -	\$ -	s -	\$ 5,057,220	\$ -	S -		S -		5%			\$ 252,861	\$ 4,804,359
6	Certain Buildings; Fences	H8	s -	\$ -	S -	\$ -	s -	\$ -	\$ -	S -	\$ -	S -	0.50		\$ -	10%			S -	<u> </u>
	General Office Equipment, Furniture, Fixtures	<u>H8</u>	\$ 12,552,462		\$ 4,179,561		\$ -	\$ -	\$ -	\$ 16,732,023		\$ 4,179,561	0.50			20%			\$ 3,764,361	\$ 12,967,662
	Motor Vehicles, Fleet	H8	\$ 2,366,541			\$ -	s -	\$ -	\$ -	\$ 8,490,967		\$ 6,124,426	0.50			30%			\$ 3,465,954	\$ 5,025,013
	Certain Automobiles	H8	\$ -	\$ -	\$ -	\$	s -	\$ -	\$ -	s -		S -	0.50		*	30%			S -	S -
	Computer Application Software (Non-Systems)	H8 H8	S -	\$ 4,559,367 \$			S -	\$ - \$ -	\$ - \$ -	\$ 4,559,367 \$ -		\$ 4,559,367	0.00			100% NA			\$ 4,559,367	\$ -
13 ,	Lease # 1 Lease # 2	H8	s .	s -	-		5 -	s .	s -			3 -	0.00			NA NA				s .
13 2	Lease # 2 Lease # 3	H8	\$.			s .		s .	• .	-	*	3 -	0.00			NA NA				s .
13 ,	Lease # 4	H8	\$ -			Ψ		\$.	\$ -	•	Ψ	a -	0.00			NA NA				s .
	Limited Period Patents, Franchises, Concessions or Licences	H8	s -		s .	s .	s .	s -	s -	-		s .	0.00			NA.				š .
14.1	Eligible Capital Property (acg'd pre Jan 1, 2017)	H8	\$ 9.324.476	*		٠ .	s .	s .	¢ .	S 9.324.476		s .	0.00	s -	s .	7%			S 652,713	\$ 8,671,762
	Eligible Capital Property (acq'd post Jan 1, 2017)	H8	\$ 14,209,083		S 51,229,464	s -	s -	s .	s -	\$ 65,438,547		S 51.229.464	0.50			5%			\$ 4.552,664	\$ 60,885,883
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	H8	\$ 1,777,411		s -	s -	s -	s .	s -	\$ 1,777,411		s -	0.50		s -	8%			\$ 142 193	\$ 1,635,219
	Fibre Optic Cable	H8	\$ 4,775,504	\$ 17,278	S 17.278	š -	s -	š -	s -	\$ 4,792,782	š -	S 17.278	0.50	S 8.639	s -	12%			S 576.170	\$ 4,216,611
	Certain Clean Energy/Energy-Efficient Generation Equipment	H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -	s -	\$ -	s -	2.33	s -	\$ -	30%			s -	\$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	H8	\$ 201,059	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 201,059	\$ -	\$ -	1.00	\$ -	\$ -	50%			\$ 100,530	\$ 100,530
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	H8	\$ 723			\$ -	s -	\$ -	\$ -	\$ 723	\$ -	s -		s -	\$ -	45%			\$ 325	\$ 398
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -			S -	0.50			30%			S -	\$ -
	Distribution System (acq'd post Feb 22/05)	H8	\$ 589,176,486				ş -	\$ -	s -	\$ 664,834,501		\$ 75,658,015	0.50			8%			\$ 56,213,081	\$ 608,621,420
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>H8</u>	\$ 977,478	\$ 1,463,823	\$ 1,463,823	\$ -	s -	\$ -	\$ -	9 2,441,501	*	\$ 1,463,823	0.50			55%			\$ 1,745,267	\$ 696,034
95	CWIP	H8	\$ -	\$ -	\$ -	\$ -	s -	s -	ş -	s -	\$ -	\$ -	0.00			0%			S -	s -
		H8	\$ -	\$ -	s -	\$ -	s -	\$ -	s -	-	*	5 -		s -						\$ -
		H8 H8	\$ -							s -		5 -		s -	\$ -					\$ -
		H8	\$ -							s -	3 .	3 -	_	s -	\$ - \$ -					\$ -
		H8	3 -							s -	3 .	3 -	_	s -	s -					3 -
		H8	\$ -							S -	s -			s -	s -					
		H8	9 .							9 .	s .	9 -		s -	9 .					
		H8	š -							š -	s -	š -		S -	\$ -					- is -
	TOTALS		\$ 911,268,854	\$ 144,309,432	\$ 144,309,432	s -	s -	s -		\$ 1,055,578,286	\$ -	\$ 144,309,432		\$ 69.875.033	\$ -		s -	s -	\$ 89,459,227	B1 \$ 966,119,059

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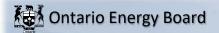


Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

Continuity of Reserves						Bridge Year	Adjustments				
Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Additions	Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	<u>H13</u>	0		0				0	<u>T13</u>	()
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(I)	<u>H13</u>	2,367,712		2,367,712				2,367,712		()
Reserve for goods and services not delivered ss. 20(1)(m)	<u>H13</u>	0		0					<u>T13</u>	(J
Reserve for unpaid amounts ss. 20(1)(n)	<u>H13</u>	0		0					<u>T13</u>	()
Debt & share issue expenses ss. 20(1)(e)	<u>H13</u>	0		0				0	<u>T13</u>	(J
Other tax reserves	<u>H13</u>	0		0				0	<u>T13</u>	(J
		0		0				0		()
		0		0				0		(5
Total		2,367,712	0	2,367,712	<u>B1</u>	0	0	2,367,712	<u>B1</u>	(0
]
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	<u>H13</u>	0		0				0	<u>T13</u>	()
General Reserve for Bad Debts	<u>H13</u>	3,183,844		3,183,844				3,183,844		(J
Accrued Employee Future Benefits:	<u>H13</u>	0		0					<u>T13</u>	()
- Medical and Life Insurance	<u>H13</u>	0		0				0	<u>T13</u>	()
- Short & Long-term Disability	<u>H13</u>	0		0				0	T13	()
- Accumulated Sick Leave	<u>H13</u>	0		0				0	110	(J
- Termination Cost	<u>H13</u>	0		0				0	110	()
- Other Post-Employment Benefits	<u>H13</u>	0		0				0	<u>T13</u>	()
Provision for Environmental Costs	H13	0		0				0	T13	()
Restructuring Costs	H13	0		0				0	T13	(J
Accrued Contingent Litigation Costs	H13	0		0				0	T13	(J
Accrued Self-Insurance Costs	H13	0		0				0	T13	(J
Other Contingent Liabilities	<u>H13</u>	0		0				0	<u>T13</u>	(3
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>H13</u>	0		0				0	<u>T13</u>	()
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>H13</u>	0		0				0	<u>T13</u>	()
Other	H13	0		0				0	T13	(5
		0		0				0		(3
		0		0				0		(o l
Total		3,183,844	0	3,183,844	<u>B1</u>	0	0	3,183,844	<u>B1</u>	(0 (



PILs Tax Provision - Test Year

Wires Only

26.50% **D = B + C**

85,000 H = F + G

85,000 **F**

Regulatory Taxable Income \$\frac{T1}{2}\$ \$\frac{11,083,740}{2}\$ A

	Tax Rate	Small Business Rate	Tax	xes Payable	Effective Tax Rate	
		(If Applicable)				
Ontario (Max 11.5%)	11.5%	11.5%	\$	1,274,630	11.5%	В
Federal (Max 15%)	15.0%	15.0%	\$	1,662,561	15.0%	С

Combined effective tax rate (Max 26.5%)

tal Income Taxes \$ 2,937,191 E = A * D

Total Income Taxes

Investment Tax Credits

Miscellaneous Tax Credits

Total Tax Credits

Income Tax (grossed-up) \$ 3,880,532 L = K + I \$ S. Su

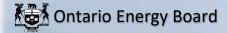
Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.



let Income Before Taxes		Working Paper Reference	Test Year Taxable Income 48,049,664
	T2 S1 line #		
Additions: Interest and penalties on taxes	103		5,000
Amortization of tangible assets 2-4 ADJUSTED ACCOUNTING DATA P489	104		57,126,035
Amortization of intangible assets 2-4 ADJUSTED ACCOUNTING DATA P490	106		
Recapture of capital cost allowance from Schedule 8 Income inclusion under subparagraph 13(38)(d)(iii)	107	<u>T8</u>	(
from Schedule 10 Loss in equity of subsidiaries and affiliates	108		
Loss on disposal of assets	111		1,000,000
Charitable donations Taxable Capital Gains	113		
Political Donations Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements Capitalized interest	118		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense Non-deductible automobile expenses	121		85,000
Non-deductible life insurance premiums	123		
Non-deductible company pension plans Tax reserves beginning of year	124	T13	2,367,712
Reserves from financial statements- balance at end of year	126	<u>T13</u>	3,183,844
Soft costs on construction and renovation of buildings	127 205		
Book loss on joint ventures or partnerships Capital items expensed	206		
Debt issue expense Development expenses claimed in current year	208		
Financing fees deducted in books	216		
Gain on settlement of debt Non-deductible advertising	220		
Non-deductible interest Non-deductible legal and accounting fees	227		
Recapture of SR&ED expenditures Share issue expense	231 235		
Write down of capital property Amounts received in respect of qualifying	236		
environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions Non-deductible penalties	295 295		780,000
	295 295		
	295 295		
RO Accretion expense Capital Contributions Received (ITA 12(1)(x))			
ease Inducements Received (ITA 12(1)(x)) Deferred Revenue (ITA 12(1)(a))			
rior Year Investment Tax Credits received urrent Year Investment Tax Credits received			85,000
Credits received			85,000
Jurient Year Investment Tax Credits received			
unent Year Investment Tax Credits received total Additions reductions:			85,000 64,632,591
urrent Year Investment Tax Creditar received cotal Additions educations: dain on disposal of assets per financial statements	401		
urrent Year Investment Tax Credits received otal Additions elucions otal Additions elucions otal Additions Dividends not taxable under action 33 Cupitar Cost allows on 50 states on 50 cupitar otal Dividends not taxable under action 33 Cupitar cost allowsor on 50 chedule 8	402 403	T8	64,632,591 93,630,000
ortal Additions rotal	402 403 404 406	<u>T8</u>	64,632,59° 93,630,000
otal Additions otal otal Stable under section 35 Captal cost diseases from Schodule 3 Terminal loss from Schodule 3 Terminal loss from Schodule 3 Terminal loss from Schodule 3 Deferred and prepaid expenses Obstraction and prepaid expenses Schodule Schodule 3 Obstraction and prepaid expenses Obstraction and prepaid expenses	402 403 404 406 409 411	<u>T8</u>	93,630,000
otal Additions otal Source of the Additional Add	402 403 404 406 409	T8	93,630,000 (2,367,712
unent Year Investment Tax Credits received. International Confession of the Confess	402 403 404 406 409 411 413 414	<u>T8</u>	93,630,000 (2,367,712 3,183,844
unent Year Investment Tax Creditir received. Intel Additions beductions: Gain on disposal of assets per financial statements Dividends not taxable under section \$3 Capital cost allowers from Schedule 8 Termon is ins from Schedule 8 Termon is ins from Schedule 8 Termon is ins from Schedule 8 Termon ins from Schedule 8 Termon ins from Schedule 8 Termon in section in present properties during present Schedule 19 Termon in section in present properties during present Schedule 19 Termon in section in present properties during present Reserves on of year. Reserves on of year. Book schedule 19 Termon in section of present properties Book schedule 19 Termon in subsidiary or affiliates Book schedule 19 Termon in subsidiary or affiliates	402 403 404 406 409 411 413	T8	93,630,000 (2,367,712 3,183,844
otal Additions otal Additions	402 403 404 406 409 411 413 414 416 305	T8	93,630,000 (2,367,712 3,183,844
grail Additions grail Additions grail Additions grail Additions grail Additions grain or special of assets per financial statements Dividends not travable under section 33 Capita cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss Deltered and prepaid expenses Grain of special operations of the properties of the pro	402 403 404 406 409 411 413 414 416 305 306 395 395	T8	93,630,000 (2,367,712 3,183,844
cost Additions cost Additions	402 403 404 406 409 411 413 414 416 305 306 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
grail Additions grail Additions grail Additions grail Additions grail Additions grain or special of assets per financial statements Dividends not travable under section 33 Capita cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss Deltered and prepaid expenses Grain of special operations of the properties of the pro	402 403 404 406 409 411 413 414 416 305 306 306 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
crost Additions crost Additions crost Additions crost Additions crost Additions crost Additions crost	402 403 404 406 409 411 413 414 416 305 306 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
crost Additions crost Additions crost Additions crost Additions crost Additions crost Additions crost	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
crost Additions crost Additions crost Additions crost Additions crost Additions crost Additions crost	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
oral Additions relatively the process of the proce	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
creal Additions beductions: Gain on disposal of basets per financial statements Dividends not baselies under section ISI Capital cost absence in this Capital cost and additions Dividends not baselies under section ISI Capital cost absence in this Cabitalda 8 Allowable business investment loss Deferred and prepare disposal dependent of part Deferred and prepare disposal dependent of part Petersen of the prepared segment of the part of	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
unent Year Investment Tax Credits received. cost Additions beholdstone beholdstone beholdstone Carlo of Spools of assets per financial statements Dividends not taxable under section IS Capita cost allowers from Schedule Capita cost allowers Schedule Capital	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
unent Year Investment Tax Creditir received. Intel Additions beductions: Gain on disposal of assets per financial asterners Dividends not toxable under section S3 Capital cost allowers from Schedule 8 Termon is inso tom Schedule 9 Termon is tom Schedule 9 Termon is inso tom Schedule 9 Termon is tom Schedule 9 Ter	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
oral Additions relative to the control of the cont	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
cost Additions Cost Additions Webductions: Cain on disposal of seeds per francial statements Devidends not baseles per francial statements in the control of the con	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
cost Additions Cost Additions Webductions: Cain on disposal of seeds per francial statements Devidends not baseles per francial statements in the control of the con	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93,630,000 (2,367,712 3,183,844 680,000
cost Additions Cost Additions Webductions: Cain on disposal of seeds per francial statements Devidends not baseles per francial statements in the control of the con	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93.630,000 (2.367,711 3.183,844 680,000
creal Additions held-additions held-	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93,630,000 93,630,000 1,736,951
cost Additions Cost Additions Webductions: Cain on disposal of seeds per francial statements Devidends not baseles per francial statements in the control of the con	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93,630,000 93,630,000 1,736,951
creal Additions held-additions held-	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T8	93,430,000 (2.367,712 1,736,956
creal Additions Seekindstones ABO Payments Seekindstones Seekindstone	402 403 403 404 406 409 409 411 413 414 414 414 416 306 306 395 395 395 395 395 395	T8	
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oral Additions relative to the control of the cont	402 403 403 404 406 406 407 413 413 305 305 305 305 305 305 305 305 305 30	TS J13 J13 L12 Calculated Calculated L4	93,430,000 (c) 2,367,712 1,736,855 1,736,855 11,083,740
creal Additions bedictations: Cain on disposal of assets per financial statements Cain on disposal of assets per financial statements Cain on disposal of assets per financial statements Distriction for talknown bedieved to the control of the	402 403 403 404 406 409 409 411 413 414 416 536 536 536 536 536 536 536 536 536 53	TS T13 T13 T13 T13 Calculated Calculated	93,430,000 (2.367,712 1,736,956

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Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Non- Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years	<u>T1</u>	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	<u>T1</u>	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non- Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	<u>T1</u>	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

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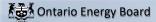


Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Cleas Dissortation	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIP)	(5) Adjustments and transfers (enter transfers (enter transfers) ((6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)		\$ 139,884,403							\$ 139,884,403	s -	\$.	0.50		s -	4%			\$ 5,595,376	\$ 134,289,026
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]		\$ 77,431,046	8,718,645	8,718,645					\$ 86,149,691		\$ 8,718,645	0.50	\$ 4,359,323	\$ -	6%			\$ 5,430,541	\$ 80,719,151
	Distribution System (acq'd pre 1988)		\$ 41,178,719							\$ 41,178,719		\$.		\$ -	\$ -	6%			\$ 2,470,723	\$ 38,707,996
	Buildings (acq'd pre 1988)	<u>B8</u>	\$ 4,804,359							\$ 4,804,359		\$.		\$ -	s -	5%			\$ 240,218	\$ 4,564,141
	Certain Buildings; Fences	<u>B8</u>	s -							\$.	s -	\$.	0.50		\$ -	10%			s -	\$ -
	General Office Equipment, Furniture, Fixtures		\$ 12,967,662	2,882,520	2,882,520					\$ 15,850,182		\$ 2,882,520	0.50		\$ -	20%			\$ 3,458,288	\$ 12,391,894
10	Motor Vehicles, Fleet		\$ 5,025,013	5,223,986	5,223,986					\$ 10,248,999	s -	\$ 5,223,986	0.50	\$ 2,611,993	\$ -	30%			\$ 3,858,298	\$ 6,390,702
	Certain Automobiles	B8	s -							\$.	s -	\$.	0.50		\$ -	30%			s -	s -
	Computer Application Software (Non-Systems)	B8	s -	4,107,240	4,107,240					\$ 4,107,240	s -	\$ 4,107,240	0.00		\$ -	100%			\$ 4,107,240	s -
	Lease #1	<u>B8</u>	\$ -							\$ -		\$.	0.00		\$ -	NA.				\$ -
	Lease # 2	<u>B8</u>	\$ -							\$ -		\$.	0.00		\$ -	NA				\$ -
	Lease #3	B8	\$ -							\$ -	s -	\$.	0.00		\$ -	NA				\$ -
	Lease # 4		s -							\$ -		\$.	0.00		\$ -	NA				s -
	Limited Period Patents, Franchises, Concessions or Licences		s -							\$.		\$.	0.00	\$ -	\$ -	NA				s -
	Eligible Capital Property (acq'd pre Jan 1, 2017)		\$ 8,671,762							\$ 8,671,762		\$.		\$ -	\$ -	7%			\$ 607,023	\$ 8,064,739
	Eligible Capital Property (acq'd post Jan 1, 2017)	<u>B8</u>	\$ 60,885,883	215,847	215,847					\$ 61,101,730		\$ 215,847	0.50		\$ -	5%			\$ 3,060,483	\$ 58,041,247
17	Elec. Generation Equip. (Non-Bidng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	\$ 1,635,219							\$ 1,635,219	\$	\$.	0.50		s -	8%			\$ 130,817	\$ 1,504,401
	Fibre Optic Cable	B8	\$ 4,216,611	17,278	17,278					\$ 4,233,889	s -	\$ 17,278	0.50		s -	12%			\$ 509,103	\$ 3,724,786
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	s -							\$.	s -	\$.	2.33		\$ -	30%			s -	\$ -
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ 100,530	1,242,123	1,242,123					\$ 1,342,653		\$ 1,242,123	1.00	\$ 1,242,123	\$ -	50%			\$ 1,292,388	\$ 50,265
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	<u>B8</u>	\$ 398							\$ 398	\$ -	\$ -		\$.	s -	45%			\$ 179	\$ 219
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>B8</u>	s -							\$ -	\$ -	\$ -	0.50		s -	30%			s -	\$
	Distribution System (acq'd post Feb 22/05)	<u>B8</u>	\$ 608,621,420	97,665,132	97,665,132					\$ 706,286,552		\$ 97,665,132	0.50		s -	8%			\$ 60,409,529	\$ 645,877,023
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>	\$ 696,034	2,517,544	2,517,544					\$ 3,213,578	\$ -	\$ 2,517,544	0.50		s -	55%			\$ 2,459,793	\$ 753,786
95	CWP		s -							\$.	s -	\$.	0.00	\$.	s -	0%			s -	s -
		B8	s -							\$.	s -	\$.		\$.	s -					s .
		<u>B8</u>	s -							\$ -	s -	\$ -		\$.	\$ -					s -
		<u>B8</u>	s -							\$ -		\$ -		\$.	\$ -					s -
		<u>B8</u>	s -							\$.	s -	\$.		\$ -	\$ -					\$ -
		<u>B8</u>	s -							\$ -	\$ -	\$ -		\$.	s -					\$.
		<u>B8</u>	s -							\$ -	\$ -	\$ -		\$.	s -					\$
		<u>B8</u>	s -							\$ -	\$ -	\$ -		\$.	s -					\$
		<u>B8</u>	s -							\$ -	\$ -	\$ -		\$.	s -					\$
	TOTALS		\$ 966,119,059	\$ 122,590,315	\$ 122,590,315	\$ -	\$ -	\$ -	\$ -	\$ 1,088,709,374	\$ -	\$ 122,590,315		\$ 59,862,599	\$ -		\$ -	\$.	\$ 93,630,000	\$ 995,079,374

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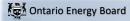


Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

						Test Year Adjustments					
Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Additions	Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
										,	
Capital Gains Reserves ss.40(1)	<u>B13</u>	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes						1					
Reserve for doubtful accounts ss. 20(1)(I)	<u>B13</u>	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	<u>B13</u>	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	<u>B13</u>	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	<u>B13</u>	0		0				0		0	
Other tax reserves	<u>B13</u>	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		2,367,712	0	2,367,712	<u>T1</u>	0	0	2,367,712	<u>T1</u>	0	0
E CONTRACTOR OF THE CONTRACTOR											
Financial Statement Reserves (not deductible for Tax Purposes)	540							_			
General Reserve for Inventory Obsolescence (non-specific)	B13	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	<u>B13</u>	0		0				0		0	
- Medical and Life Insurance	B13	0		0				0		0	
-Short & Long-term Disability	<u>B13</u>	0		0				0		0	
-Accmulated Sick Leave	<u>B13</u>	0		0				0		0	
- Termination Cost	<u>B13</u>	0		0				0		0	
- Other Post-Employment Benefits	<u>B13</u>	0		0				0		0	
Provision for Environmental Costs	<u>B13</u>	0		0				0		0	
Restructuring Costs	<u>B13</u>	0		0				0		0	
Accrued Contingent Litigation Costs	<u>B13</u>	0		0				0		0	
Accrued Self-Insurance Costs	<u>B13</u>	0		0				0		0	
Other Contingent Liabilities	<u>B13</u>	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>B13</u>	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>B13</u>	0		0				0		0	
Other	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		3,183,844	0	3,183,844	<u>T1</u>	0	0	3,183,844	<u>T1</u>	0	0



Utility Name Hydro Ottawa Limited

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499,7472

Email Address RegulatoryAffairs@hydroottawa.com

ORIGINAL

Last COS Re-based Year 2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your rate application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assigning you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Instructions

Purnose

Version 1.10

The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab To and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology

To calculate the PILs for the Test Year:

- 1) input the balances from the income tax return of the Historical Year in tabs H1 to H13. 2) input the balances for the Bridge Year and the Test Year. Inputs should include:
- non-deductible expenses (Schedule 1 B1 and T1)
- loss carryforward (Schedule 4 B4 and T4)
- capital cost allowance (Schedule 8 B8 and T8)
- non-deductible reserves (Schedule 13 B13 and T13)

3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes

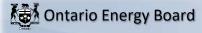
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

Attachment F UPDATED



Income Tax/PILs Workform for 2020 Filers

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1. Info

S. Summary

A. Data Input Sheet

B. Tax Rates & Exemptions

Historical Year H0 - PILs, Tax Provision Historical Year

H1 - Adj. Taxable Income Historical Year

H4 - Schedule 4 Loss Carry Forward Historical Year

H8 - Schedule 8 Historical

H13 - Schedule 13 Tax Reserves Historical

Bridge Year <u>B0 - PILs,Tax Provision Bridge Year</u>

B1 - Adj. Taxable Income Bridge Year

B4 - Schedule 4 Loss Carry Forward Bridge Year

B8 - Schedule 8 CCA Bridge Year

B13 - Schedule 13 Tax Reserves Bridge Year

Test Year To PILs, Tax Provision Test Year

T1 Taxable Income Test Year

T4 Schedule 4 Loss Carry Forward Test Year

T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

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Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference	
Adjustments required to arrive at taxable income	as below	-26,595,403
Test Year - Payments in Lieu of Taxes (PILs)	<u>T0</u>	6,323,862
Test Year - Grossed-up PILs	<u>T0</u>	8,603,893
Effective Federal Tax Rate	<u>T0</u>	15.0%
Effective Ontario Tax Rate	<u>T0</u>	11.5%
Calculation of Adjustments required to arrive at Taxable Income		
Regulatory Income (before income taxes)	<u>T1</u>	50,779,786
Taxable Income	<u>T1</u>	24,184,384
Difference	calculated	-26,595,403 as above

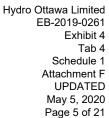
Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 4 Schedule 1 Attachment F UPDATED May 5, 2020 Page 4 of 21

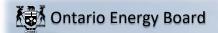
Income Tax/PILs Workform for 2020 Filers

Integrity Checks

The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

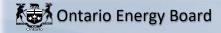
Item	Utility Confirmation (Y/N)	Notes
1 The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2 The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year		
UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
3		
The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years file	V	
4 in the application		
5 Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6 A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7 CCA is maximized even if there are tax loss carry-forwards	Υ	
Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A		
analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario	Y	
8 reports, and actuarial valuations.		
9 The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	





			Test Year		Bridge Year	
Rate Base		s	\$	1,363,581,802	\$ 1,315,708,216	
Return on Ratebase						
Deemed ShortTerm Debt %	4.00%	т	\$	54,543,272	W = S * T	
Deemed Long Term Debt %	56.00%	U S	\$	763,605,809	X = S * U	
Deemed Equity %	40.00%	V	\$	545,432,721	Y = S * V	
Short Term Interest Rate	2.75%	z	\$	1,499,940	AC = W * Z	
Long Term Interest	3.40%	AA S	\$	25,962,598	AD = X * AA	
Return on Equity (Regulatory Income)	9.31%	AB	\$	50,779,786	AE = Y * AB T'	L
Return on Rate Base		_ ;	\$	78,242,324	AF = AC + AD + AE	

Q	uestions that must be answered	Historical Year	Bridge Year	Test Year
1.	Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2.	Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3.	Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4.	Does the applicant have any Capital Leases?	No	No	No
5.	Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6.	Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7.	Did the applicant pay dividends? If Yes, please describe the tax treatment in the manager's summary.	Yes	Yes	Yes
8.	Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

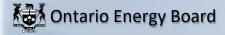


Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax General Corporate Rate Federal Tax Abatement Adjusted Federal Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction Federal Income Tax	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax Combined Federal and Ontario	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business Federal Small Business Limit Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

<u>Notes</u>

- 1. The Ontario Energy Board's proxy for taxable capital is rate base.
- 2. Regarding the small business deduction, if applicable,
 - a. If taxable capital exceeds \$15 million, the small business rate will not be applicable.
 - b. If taxable capital is below \$10 million, the small business rate would be applicable.
 - c. If taxable capital is between \$10 million and \$15 million, the appropriate small business rate will be calculated.

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Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

Regulatory Taxable Income Combined Tax Rate and PILs

Ontario Tax Rate (Maximum 11.5%) Federal tax rate (Maximum 15%) Combined tax rate (Maximum 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Historical Year

Wires Only

\$ 6,489,387 **A**

11.50%

15.00%

В

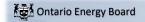
С

26.50% **D = B+C**

\$ 1,719,688 E = A * D \$ 85,000 F \$ G \$ 85,000 H = F + G

\$ 1,634,688 I = E - H

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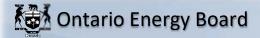


Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal	Non-Distribution	Historic
Income before PILs/Taxes	(A + 101 + 102)	Entity 43,715,750	Eliminations	Wires Only 43,715,750
Additions:				
Interest and penalties on taxes Amortization of tangible assets	103 104	5,000 52,776,147		5,000 52,776,147
Amortization of intangible assets	106	0		(
Recapture of capital cost allowance from Schedule 8	107 108	0		(
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10 Loss in equity of subsidiaries and affiliates	110	0		Č
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2 Taxable capital gains from Schedule 6	112 113	0		
Political contributions	114	0		(
Deferred and prepaid expenses	116	0		(
Scientific research expenditures deducted on financial statements Capitalized interest	118 119	0		(
Non-deductible club dues and fees	120	0		(
Non-deductible meals and entertainment expense Non-deductible automobile expenses	121 122	85,000 0		85,000
Non-deductible life insurance premiums	123	0		(
Non-deductible company pension plans	124	0		(
Tax reserves deducted in prior year Reserves from financial statements – balance at the end of the year	125 126	2,367,712 3,183,844		2,367,712 3,183,844
Soft costs on construction and renovation of buildings	127	0,100,011		(
Capital items expensed	206	0		1
Debt issue expense Development expenses claimed in current year	208 212	0		(
Financing fees deducted in books	216	0		i
Gain on settlement of debt	220	0		(
Non-deductible advertising Non-deductible interest	226 227	0		-
Non-deductible legal and accounting fees	228	0		(
Recapture of SR&ED expenditures	231	0		
Share issue expense Write down of capital property	235 236	0		(
Write down of capital property Amounts received in respect of qualifying equipment trust per pergraphs 12(4)/7.1) and 12(1)/7.2)				
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		(
Other additions Interest Expensed on Capital Leases	295	0		
Realized Income from Deferred Credit Accounts	295	0		
Pensions	295	780,000		780,000
Non-deductible penalties	295 295	0		(
	295	0		
ARO Accretion expense		0		(
Capital Contributions Received (ITA 12(1)(x))		0		(
Lease Inducements Received (ITA 12(1)(x)) Deferred Revenue (ITA 12(1)(a))		0		
Prior Year Investment Tax Credits received		0		(
Current Year Investment Tax Credits received		85,000		85,000
				(
				(
				(
				(
Total Additions		60,282,703	0	60,282,703
	,	,,,		,,
Deductions:				
Gain on disposal of assets per financial statements Non-taxable dividends under section 83	401	0		(
Capital cost allowance from Schedule 8	403	89,459,227		89,459,227
Terminal loss from Schedule 8	404	0		(
Allowable business investment loss Deferred and prepaid expenses	406 409	0		(
Scientific research expenses claimed in year	411	0		
Tax reserves claimed in current year	413	2,367,712		2,367,712
Reserves from financial statements - balance at beginning of year Contributions to deferred income plans	414 416	3,183,844 680,000		3,183,84
Book income of joint venture or partnership	305	0		000,000
Equity in income from subsidiary or affiliates	306	0		-
Other deductions Interest capitalized for accounting deducted for tax	395	0		
Capital Lease Payments	395	0		
Non-taxable imputed interest income on deferral and variance accounts	395	0		
Scientific Research & Experimental Development Expenses	395 395	1,818,283		1,818,28
ARO Payments - Deductible for Tax when Paid	395	0		(
ITA 13(7.4) Election - Capital Contributions Received		0		(
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds Deferred Payanua - ITA 20(1)(m) receive		0		(
Deferred Revenue - ITA 20(1)(m) reserve Principal portion of lease payments		0		
Lease Inducement Book Amortization credit to income		0		(
Financing fees for tax ITA 20(1)(e) and (e.1)		0		(
				(
				(
				(
				(
				(
Total Deductions		07 500 000		07 500 066
Total Deductions		97,509,066	0	97,509,066
Net Income for Tax Purposes		6,489,387	0	6,489,387
Charitable donations from Schedule 2	311	0		(
Taxable dividends received under section 112 or 113	320	0		(
Non-capital losses of previous tax years from Schedule 4 Net capital losses of previous tax years from Schedule 4	331 332	0		(
Limited partnership losses of previous tax years from Schedule 4	335	0		(
		6,489,387		6,489,387
TAXABLE INCOME			0	

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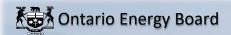


Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

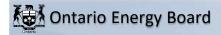
Non-Capital Loss Carry Forward Deduction	Total	Non- Distribution Portion	Utility Balance	
Actual Historical			0	Ē
Net Capital Loss Carry Forward Deduction	Total	Non- Distribution Portion	Utility Balance	
Actual Historical			0	



Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	\$ 139,884,403		\$ 139,884,403
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	\$ 77,431,046		\$ 77,431,046
2	Distribution System (acq'd pre 1988)	\$ 41,178,719		\$ 41,178,719
3	Buildings (acq'd pre 1988)	\$ 4,804,359		\$ 4,804,359
6	Certain Buildings; Fences	\$ -		\$ -
8	General Office Equipment, Furniture, Fixtures	\$ 12,967,662		\$ 12,967,662
10	Motor Vehicles, Fleet	\$ 5,025,013		\$ 5,025,013
10.1	Certain Automobiles	\$ -		\$ -
12	Computer Application Software (Non-Systems)	\$ -		\$ -
13 ₁	Lease # 1	\$ -		\$ -
13 2	Lease # 2	\$ -		\$ -
13 ₃	Lease # 3	\$ -		\$ -
13 4	Lease # 4	\$ -		\$ -
14	Limited Period Patents, Franchises, Concessions or Licences	\$ -		-
14.1	Eligible Capital Property (acq'd pre 2017)	\$ 8,671,762		\$ 8,671,762
14.1	Eligible Capital Property (acq'd post 2016)	\$ 60,885,883		\$ 60,885,883
17	Elec. Generation Equip. (Non-Bldng, acg'd post Feb 27/00); Roads, Lots, Storage	\$ 1,635,219		\$ 1,635,219
42	Fibre Optic Cable	\$ 4,216,611		\$ 4,216,611
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ -		\$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ 100,530		\$ 100,530
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	\$ 398		\$ 398
46	Data Network Infrastructure Equipment (acg'd post Mar 22/04)	\$ -		\$ -
47	Distribution System (acg'd post Feb 22/05)	\$ 608,621,420		\$ 608,621,420
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	\$ 696,034		\$ 696,034
95	CWIP	\$ -		\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
	SUB-TOTAL - UCC	966,119,059		0 966,119,059

B13 B13 B13 B13 B13 B13



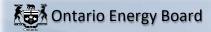
Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only
2011			
Capital gains reserves ss.40(1)			0
Tax reserves not deducted for accounting purp			
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712
Reserve for undelivered goods and services not rendered ss. 20(1)(m)			0
Reserve for unpaid amounts ss. 20(1)(n)			0
Debt & share issue expenses ss. 20(1)(e)			0
Other tax reserves			0
			0
			0
			0
			0
			0
Total	2,367,712	0	2,367,712
Financial Statement Reserves (not deductible			
General reserve for inventory obsolescence (non-			0
specific)			0
General reserve for bad debts	3,183,844		3,183,844
Accrued Employee Future Benefits:			0
- Medical and Life Insurance			0
-Short & Long-term Disability			0
-Accmulated Sick Leave			0
- Termination Cost			0
- Other Post-Employment Benefits			0
Provision for Environmental Costs			0
Restructuring Costs			0
Accrued Contingent Litigation Costs			0
Accrued Self-Insurance Costs			0
Other Contingent Liabilities			0
Bonuses Accrued and Not Paid Within 180 Days			0
of Year-End ss. 78(4)			0
Unpaid Amounts to Related Person and Not Paid			0
Within 3 Taxation Years ss. 78(1)			
Other			0
			0
			0
Total	3,183,844	0	3,183,844

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Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

Regulatory Taxable Income

	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate
Ontario (Max 11.5%)	11.5%	11.5%	########	11.5% B
Federal (Max 15%)	15.0%	15.0%	########	15.0% C

Combined effective tax rate (Max 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Bridge Year

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Wires Only

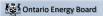
Reference

<u>B1</u> \$ 11,083,740 **A**

\$ 2,937,191	E = A * D

\$ 85,000	F
\$ -	G
\$ 85,000	H = F + G
•	•

\$ 2,852,191 I = E - H



Adjusted Taxable Income - Bridge Year

Income before PILs/Taxes		Paper Reference	Regulated Utilit
	(A + 101 + 102)		48,049,66
Additions: Interest and penalties on taxes	103		5.00
Amortization of tangible assets	104		57,126,03
Amortization of intangible assets Recapture of capital cost allowance from	106		
Schedule 8 Income inclusion under subparagraph	107	<u>B8</u>	
13(38)(d)(iii)	108		1
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,00
Charitable donations and gifts from Schedule 2	112		
Taxable capital gains	113		
Political contributions Deferred and prepaid expenses	114		
Scientific research expenditures deducted on	118		
financial statements Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,00
Non-deductible automobile expenses	122 123		
Non-deductible life insurance premiums Non-deductible company pension plans	124		
Tax reserves deducted in prior year Reserves from financial statements- balance at	125	<u>B13</u>	2,367,71
end of year	126	<u>B13</u>	3,183,84
Soft costs on construction and renovation of buildings	127		
Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books Gain on settlement of debt	216 220	1	
Non-deductible advertising	226		
Non-deductible interest	227	 	
Non-deductible legal and accounting fees Recontine of SP&ED expenditures	228		
Recapture of SR&ED expenditures Share issue expense	231 235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1)	237	1	
and 12(1)(z.2) Other Additions		L	
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,00
Non-deductible penalties	295 295		
	295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a)) Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits received			85,00
			64,632,59
Deductions: Gain on disposal of assets per financial statements	401		
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83	402	B8	
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8	402 403 404	B8 B8	93,630,00
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss	402 403 404 406	<u>B8</u> <u>B8</u>	93,630,00
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8	402 403 404	B8 B8	93,630,00
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83 Capital cost allowance from Schedule 8 Terminal toss from Schedule 8 Allowable business investment loss Deletred and prepaid expenses Scientific research appenses claimed in year fax reserves claimed in current year	402 403 404 406 409	B8 B8 B13	93,630,000
Deductions Gain or disposal of assets per financial statements Gain or disposal or disposal or disposal statements Divisiends not taushle under section 63 Capital cost allowance from Schedule 8 Allowable business investment loss Deferred and prepried upperses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - balance	402 403 404 406 409 411		93,630,00
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 63 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss Deferred and prepaid expenses Scientific research expenses claimed in year Tax reserves claimed in current year	402 403 404 406 409 411 413	B13	93,630,000 2,367,71 3,183,84
Deductions: Sain or disposal of assets per financial statements. Sain or disposal of assets per financial statements. Dividends not stouble under section 83 Capital cost allowance from Schedule 8 Terminal toss from Schedule 8 Allowable business investment loss Deterred and prepared peripared sold prepared peripared peripa	402 403 404 406 409 411 413 414	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements and account of account	402 403 404 406 409 411 413 414 416	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Can on disposal of assets per financial statements: Can on disposal of assets per financial statements: Devidends not buoble under section 63 or consideration of the consideration of th	402 403 404 406 409 411 413 414 416 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements and cain or disposal of assets per financial statements. Capital cost allowards from Schedule 8 Capital cost allowards from Schedule 8 Allowable business investment loss Deferred and project dependes Scientific research expenses claimed in year and cain of the	402 403 404 406 409 411 413 414 416 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements and account of account	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: (Sain or disposal of assets per financial statements and call of the control of the	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Capital data disposal control of the Capital data disposal control of the Capital data disposal control of the Capital data disposal data disposal data disposal dependent data disposal dependent de dependent de dependent de des dependent de dependent de dependent de des des des des des des des des des	402 403 404 406 409 411 413 414 416 305 306	B13	93.630.00 2,367.71 3.183.84 680.00
Deductions: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Capital data disposal control of the Capital data disposal control of the Capital data disposal control of the Capital data disposal data disposal data disposal dependent data disposal dependent de dependent de dependent de des dependent de dependent de dependent de des des des des des des des des des	402 403 404 406 409 411 413 414 416 305 306 395 395	B13	93.630,00 2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Capital data disposal control of the Capital data disposal control of the Capital data disposal control of the Capital data disposal data disposal data disposal dependent data disposal dependent de dependent de dependent de des dependent de dependent de dependent de des des des des des des des des des	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Cain or disposal of assets per financial statements: Capital cost alforance from Schedule 8 Terminal loss from Schedule 9 Advosable business investment loss Deferred and prepaid expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financia statements - bulancia at bedigning of year Contributions to deferred income plans Deductions of year or statements of the properties of the	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Can on disposal of assets per financial statements Can on disposal of assets per financial statements Dedendring that bushle under section 63 Dedendring that bushle under section 63 Terminal loss from Schedule 6 Terminal from Schedule 6 Terminal from Schedule 7 Terminal from Schedul	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements: Gain or disposal of assets per financial statements: Gain or disposal of assets developed the control of 3 Congital does il attorneous form Schedule 8 Terminal loss from Schedule 8 Advosable business investment loss Deferred and prepaid expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - tolariona at benámica of sees Constitutions to statement in control plans Book income of joint ventua or patherathip Equiph in income from subuldiary or difficults Other deductions Therest capitalized for accounting deducted for tax Congolial Lasses Phyments Congolial Lasses Phyments Development Expenses ANO Phyments - Deductible for Tax when Paid AND Phyments - Deductible for Tax when	402 403 404 406 409 411 413 414 416 305 306	B13	93.630.00 2.367.71 3.183.84 680.00
Deductions: Cain or disposal of assets per financial statements and a control of a	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Can on disposal of assets per financial statements. Can on disposal of assets per financial statements. Can on disposal of assets per financial statements. Dividends not asset per section \$3. Terminal tous from Schedule of the Schedule of Terminal tous from Schedule of Terminal tous from Schedule of the Schedule of	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements and account disposal of assets per financial statements are statements as the control of a comment of the control of a comment of the control of a c	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 690,00
Deductions: Can on disposal of assets per financial statements. Can on disposal of assets per financial statements. Can on disposal of assets per financial statements. Dividends not asset per section \$3. Terminal tous from Schedule of the Schedule of Terminal tous from Schedule of Terminal tous from Schedule of the Schedule of	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 690,00
Deductions: Cain or disposal of assets per financial statements and account disposal of assets per financial statements are statements as the control of a comment of the control of a comment of the control of a c	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 690,00
Deductions: Cain or disposal of assets per financial statements and account disposal of assets per financial statements are statements as the control of a comment of the control of a comment of the control of a c	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 690,00
Deductions: Cain or disposal of assets per financial statements and account disposal of assets per financial statements are statements as the control of a comment of the control of a comment of the control of a c	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 690,00
Deductions: Cain or disposal of assets per financial statements and account disposal of assets per financial statements are statements as the control of a comment of the control of a comment of the control of a c	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 690,00
Deductions: Cain or disposal of assets per financial statements and account disposal of assets per financial statements are statements as the control of a comment of the control of a comment of the control of a c	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Debeutions: Cain or disposal of assets per financial statements and cain or disposal of assets per financial statements and cain or disposal of assets per section 18 Capital Cost allowages from Schedule 9 Terminal loss from Schedule 9 Terminal loss from Schedule 9 Terminal loss from Schedule 9 Capital Cost allowages for schedule 9 Capital Cost allowages for schedule 9 Capital Cost and propal deporters Capital Cost and propal deporters Capital Cost and propal deporters of the Capital Cost and propal deporters of the Capital Cost and in Capital Cost and in Capital Cost and in Capital Cost and Ca	402 403 404 406 409 411 413 414 416 305 306	B13	93,630,00 2,367,71 3,183,84 680,00
Deductions: Calm or disposal of assets per financial statements and calm or disposal of assets per financial statements and calm or disposal of assets per section RS Capital Cost allowance from Schedule 8 Terminal loss from Schedule 9 Tax reserves claimed in per section of the sect	402 403 404 406 409 411 413 414 416 305 306	B13	2,367,71 3,183,84 680,00
Deductions: Cain or disposal of assets per financial statements and cain or disposal of assets per financial statements are stated under section 63 Cain or disposal of assets per statement of the cain of the c	402 403 404 406 409 411 413 414 416 305 306	B13	93.630.00 2.367,71 3.163,846 680.00 1.736,95
Debeutoine: Calm or disposal of assets per financial statements: Calm or disposal of assets per financial statements: Calm or disposal of assets per financial statements: Calm or disposal of assets per section 13 Capital Cost alforaction from Schedule 8 Terminal loss from Schedule 9 Terminal loss from Schedule 9 Deferred and prepaid expenses Deferred and prepaid expenses Scientific research expenses claimed in year 1 Tax reservers claimed in current year Reservers from Internacial statements - balancia at beginning of year Contributions to deferred income plans Book income of joint ventue or patrenship current year (Pagin) in income from substidiery or affiliales. Differ defections Non-issable imputed interest income on Cognital cases (Psymmens - Deductible for Tax when Pagin 14 (317.4) Biochion - Apply Lease Inducement Received Revenue - Capital Constitutions Received Company (Pagin School) Financing Sees for tax ITA 20(1)(e) and (e. 1) Total Deductions Not Income for Tax Purposes Transing Sees for tax ITA 20(1)(e) and (e. 1)	602 403 404 406 409 411 413 416 306 306 306 306 306 306 306	B13	93,630,00 2,367,71 3,183,84 680,00 1,736,95 11,083,74
Deductions: Calm or disposal of assets per financial statements and calm or disposal of assets per financial statements and calm or disposal of assets per section RS Calm or disposal of assets per section RS Calmid or the cal	602 403 404 406 409 411 413 414 416 305 305 305 305 305 306 306 307 307 308 308 308 308 308 308 308 308	B13	2,367,71 3,183,84 680,00 1,736,95
Deductions: Calin or disposal of assets per financial statements: Calin or disposal of assets per financial statements: Calin or disposal of assets per financial statements: Calin or disposal of assets per section 13 Capital cost altowate enter statement to as Deferred and prepaid expenses from Schedule 8 Altowate be unions investment toos Deferred and prepaid expenses claimed in year 1 Tax reserves claimed in current year Reserves from Intractical statements - bulancia at beginning of year Contributions to deferred income plans Book income of joint venture or pathership Equiph in income from subulding or difficults Other defections Not-stabilized for accounting deducted for tax Not-stabilized programment of year Capital Lesse Payments Not-stabilized programment income on Gosteria (Particular Interest capitalized for accounting deducted for tax Not-stabilized inspirated interest income on Gosteria (Particular Interest Capital Constitutions Received ARO Payments - Deductible for Tax when Paid TA (17/4) Blockinor - Apply Lesse Inducement Received TA (17/4) Blockinor - Apply Lesse Inducement Received Lesse Inducement Book Amontization credit to income Financing fees for tax ITA 20(1)(e) and (e. 1) Total Deductions Net Income for Tax Purposes Darkable dividendures Lavariable dividendures Net Income for Tax Purposes Darkable dividendures Lavariable dividendures Net Income for Tax Purposes Darkable dividendures Lavariable dividendures Net Income for Tax Purposes Darkable dividendures Lavariable divid	402 403 404 404 409 409 411 413 414 414 416 306 306 306 306 306 306 306 306 306 30	B13 B13 Calculated Calculated	2,367,74 2,367,74 3,183,48 680,00 1,736,95 101,598,51 11,083,74
Deductions: Cain or disposal of assets per financial statements. Cain or disposal of assets per financial statements. Cain or disposal of assets per financial statements. Deduction for advantage under section 152 Orthodox for advantage of the control of the	402 403 404 406 409 411 413 414 416 306 306 306 306 306 306 306 306 306 30	B13 B13 Calculated	93,630,00 93,630,00 2,367,71 3,183,84 680,00 1,736,95

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Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year	<u>B1</u>	0
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	0
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

<u>T4</u>

Net Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year		
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

<u>T4</u>

Hydro Ottawa Limited
EB-2019-0261
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May 5, 2020
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Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIP (column 8 plus column 6 minus column 3 plus column 7 plus column 7 plus qual negative, enter "0")	(11) Net capital cost additions of AIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(18) UCC at the end of the bridge year (column 9 minus column 17)	P
1	Buildings, Distribution System (acq'd post 1987)	H8	\$ 139,884,403	s -	s -	s -	s -	s -	s -	S 139.884.403	s -	s -	0.50	s -	s -	4%	s -	s -	\$ 5,595,376	\$ 134,289,02	26
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	H8	\$ 77,431,046	\$ 8,718,645	\$ 8,718,645	\$ -	s -	\$ -	\$ -	\$ 86,149,691	\$ -	\$ 8,718,645	0.50	\$ 4,359,323	\$ -	6%	s -	\$ -	\$ 5,430,541	\$ 80,719,15	51
	Distribution System (acq'd pre 1988)	H8	\$ 41,178,719			\$ -	s -	\$ -	\$ -	\$ 41,178,719	\$ -	s -		s -	\$ -	6%	s -	\$ -	\$ 2,470,723	\$ 38,707,99	96
	Buildings (acq'd pre 1988)	H8	\$ 4,804,359			\$ -	\$ -	\$ -	\$ -	\$ 4,804,359	\$ -	\$ -		\$ -	\$ -	5%	\$ -	\$ -	\$ 240,218	\$ 4,564,14	
	Certain Buildings; Fences	H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -		\$ -	s -	0.50		\$ -	10%	s -	\$ -	s -	\$ -	
	General Office Equipment, Furniture, Fixtures	<u>H8</u>	\$ 12,967,662				s -	\$ -	\$ -	\$ 15,850,182		\$ 2,882,520	0.50		\$ -	20%	s -	\$ -	\$ 3,458,288	\$ 12,391,89	
	Motor Vehicles, Fleet	H8 H8	\$ 5,025,013				s -	\$ -	\$ -	\$ 10,248,999		\$ 5,223,986	0.50		\$ -	30%	s -	\$ -	\$ 3,858,298	\$ 6,390,70	
	Certain Automobiles		\$ -	\$ -	s -	\$ -	\$ -	\$ -	\$ -			s -	0.50		*	30%	s -	\$ -	S -	s -	
	Computer Application Software (Non-Systems)	H8	ş -	\$ 4,107,240			\$ -	\$ -				\$ 4,107,240	0.00			100%	s -	*	\$ 4,107,240	s -	
	Lease # 1 Lease # 2	H8	\$ - \$ -	\$ - \$ -	s -		s -	\$ - \$ -	\$ - \$ -			s -	0.00			NA NA	S -	\$ -		s -	-
	Lease # 2 Lease # 3	H8 H8	s -		3 -	\$.	5 -	\$.	\$ -	s .	*		0.00			NA NA	3 -	\$.		\$.	-
	Lease # 3 Lease # 4	H8	S -		s -	\$ -	S -	s -	s -			\$ -	0.00			NA NA	s -	\$ -		\$.	
13 4			٠ .	\$ -	5 -	\$.	5 -	\$.		9 -	\$.	3 .	0.00		s -	NA NA	s -	s -		3 .	-
	Limited Period Patents, Franchises, Concessions or Licences Eligible Capital Property (acq'd pre Jan 1, 2017)	H8 H8	\$ 8 671 762	\$ -	s -	\$ -	s -	\$ -	s -	9		s -		s -		7%	S -	\$ -	\$ 607.023	\$ 8,064,73	
	Eligible Capital Property (acq d pre Jan 1, 2017) Eligible Capital Property (acq'd post Jan 1, 2017)	H8	\$ 60,885,883		S 215.847		s -	\$.	• .	0 0,011,100		\$ 215.847				5%	s -	s -		\$ 58,064,73	
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	H8	\$ 1,635,219		S - 215,647	\$.	9 -	s .	• .	\$ 1.635,219		\$ 215,647	0.50		\$.	8%	s .	9 .	\$ 130,817	\$ 1.504.40	
	Fibre Optic Cable	H8	\$ 4,216,611			٠ .	9 -	9 .	· .	\$ 4,033,219		\$ 17.278	0.50			12%	s .	9 .	\$ 509.103	\$ 3,724,78	
	Certain Clean Energy/Energy-Efficient Generation Equipment	H8	\$ 4,210,011	\$ 17,270	S -	\$ -	s -	\$.	2 -	S 4,233,665	s .	S -	2.33		\$.	30%	s -	\$.	\$ -	\$ 3,724,70	86
	Certain Clean Energy/Energy-Efficient Generation Equipment	H8	\$ 100.530	\$ 1.242.123	\$ 1,242,123	s -	s -	s -	s -	\$ 1.342.653	s -	\$ 1,242,123	1.00			50%	s -	s -	\$ 1,292,388	\$ 50.26	85
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	H8	\$ 398		1,242,120	s -	s -	s -	š -			S -	1.00	S -		45%	s -	s -		\$ 21	
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	H8	s -	s -	s -	s -	s -	s -	s -	S -	s -	s -	0.50		s -	30%	s -		S -	S -	7
	Distribution System (acq'd post Feb 22/05)	H8	\$ 608,621,420	\$ 97,665,132	\$ 97,665,132	\$ -	s -	\$ -	\$ -	\$ 706,286,552	\$ -	\$ 97,665,132	0.50	\$ 48,832,566	\$ -	8%	s -	\$ -	\$ 60,409,529	\$ 645,877,02	23
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	H8	\$ 696,034	\$ 2,517,544	\$ 2,517,544	\$ -	s -	\$ -	\$ -	\$ 3,213,578	\$ -	\$ 2,517,544	0.50	\$ 1,258,772	\$ -	55%	s -	\$ -	\$ 2,459,793	\$ 753,78	86
95	CWIP	H8	s -	\$ -	S -	\$ -	s -	\$ -	\$ -	S -	\$ -	\$ -	0.00	s -	\$ -	0%	s -	\$ -	S -	\$ -	7
		H8	\$ -							s -	\$ -	s -		s -	\$ -					\$ -	
		H8	\$ -							S -	\$ -	\$ -		\$ -	\$ -					\$ -	
		H8	\$ -							s -	\$ -	s -		s -	\$ -					\$ -	
		H8	\$ -							S -		s -		ş -						\$ -	
		H8	s -							s -	\$ -	ş -		s -						\$ -	
		H8	\$ -							S -	*	s -		s -						\$ -	_
		H8	\$ -							S -	9	s -		s -	\$ -					\$ -	_
		H8	\$ -							S -				\$ -	\$ -					\$ -	_
	TOTALS		\$ 966,119,059	\$ 122,590,315	\$ 122,590,315	\$ -	\$ -	\$ -	\$ -	\$ 1,088,709,374	\$ -	\$ 122,590,315		\$ 59,862,599	\$ -		\$ -	\$ -	\$ 93,630,000	81 \$ 995,079,37	4

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Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

						Bridge Year	Adjustments				
Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Additions	Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
							•				1
Capital gains reserves ss.40(1)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(I)	H13	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	<u>T13</u>	0	
Reserve for unpaid amounts ss. 20(1)(n)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Debt & share issue expenses ss. 20(1)(e)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Other tax reserves	<u>H13</u>	0		0				0	<u>T13</u>	0	
		0		0				0		0	
Total		2,367,712	0	2,367,712	<u>B1</u>	0	0	2,367,712	<u>B1</u>	0	C
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13		
General Reserve for Bad Debts	<u>піз</u> Н13	3.183.844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	H13	3,103,044		3,103,044					T13	0	
- Medical and Life Insurance	<u>піз</u> Н13	0		0	-			0	_	0	
- Short & Long-term Disability	H13	0		0				0	_	0	
- Accumulated Sick Leave	H13	0		0				0	_	0	
- Termination Cost	H13	0		0				Ÿ	T13	0	
- Other Post-Employment Benefits	H13	0		0					T13	0	
Provision for Environmental Costs	H13	0		0					T13	0	
Restructuring Costs	H13	0		0				0		0	
Accrued Contingent Litigation Costs	H13	0		0				0	T13	0	
Accrued Self-Insurance Costs	H13	0		0				0	T13	0	
Other Contingent Liabilities	H13	0		0				0	T13	0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>H13</u>	0		0				0	<u>T13</u>	0	
Other	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		3,183,844	0	3,183,844	B1	0	0	3,183,844	B1	0	(

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Income Tax/PILs Workform for 2020 Filers

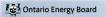
PILs Tax Provision - Test Year

Wires Only

Regulatory Taxable Income								<u>T1</u>	\$	24,184,384 A	
	Tax Rate Sr	mall Business Rate (If Applicable)	Tax	xes Payable	Effective Tax Rate						
Ontario (Max 11.5%)	11.5%	11.5%	\$	2,781,204	11.5%	В					
Federal (Max 15%)	15.0%	15.0%	\$	3,627,658	15.0%	С					
Combined effective tax rate (Max	26.5%)									26.50% D = B + C	
Total Income Taxes									\$	6,408,862 E = A * D	
Investment Tax Credits Miscellaneous Tax Credits Total Tax Credits									\$ \$	85,000 F G 85,000 H = F + G	
Corporate PILs/Income Tax Provision	on for Test Yea	r							\$	6,323,862 I = E - H	S. Summary
Corporate PILs/Income Tax Provision	Gross Up ¹						73.50%	J = 1-D	\$	2,280,032 K = I/J-I	
Income Tax (grossed-up)									\$	8,603,893 L = K + I	S. Summary

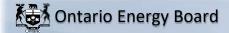
Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.



	1	Working Paper Reference	Taxable Income
Net Income Before Taxes	T2 S1 line #	<u>A.</u>	50,779,78
Additions:			
Interest and penalties on taxes Amortization of tangible assets	103		5,00 59.374.33
2-4 ADJUSTED ACCOUNTING DATA P489 Amortization of intangible assets	106		00,074,00
2-4 ADJUSTED ACCOUNTING DATA P490 Recapture of capital cost allowance from Schedule	100		
8 Income inclusion under subparagraph 13(38)(d)(iii)	107	<u>T8</u>	
from Schedule 10	108		
Loss in equity of subsidiaries and affiliates Loss on disposal of assets	110		1,000,00
Charitable donations	112		.,,,,,,,,,
Taxable Capital Gains Political Donations	113 114		
Deferred and prepaid expenses Scientific research expenditures deducted on	116		
financial statements	118		
Capitalized interest Non-deductible club dues and fees	119 120		
Non-deductible meals and entertainment expense	121		85,00
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums Non-deductible company pension plans	123 124		
Tax reserves beginning of year	125	T13	2,367,71
Reserves from financial statements- balance at end of year	126	T13	3,183,84
Soft costs on construction and renovation of buildings	127		
Book loss on joint ventures or partnerships	205		
Capital items expensed Debt issue expense	206 208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt Non-deductible advertising	220		
Non-deductible interest	226 227		
Non-deductible legal and accounting fees Recapture of SR&ED expenditures	228 231		
Share issue expense	235		
Write down of capital property Amounts received in respect of qualifying	236		
environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2) Other Additions	237		
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,00
Non-deductible penalties	295 295		
	295		
	295 295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x)) Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received			85,00
			66,880,89
Deductions:	404		66,880,89
Deductions: Gain on disposal of assets per financial statements	401		66,880,89
Deductions:	401 402 403	Т8	
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8	402 403 404	I8 I8	86,179,56
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss	402 403		86,179,56
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 83 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowabbe business investment loss Deferred and prepaid expenses Scientific research expenses claimed in year	402 403 404 406 409 411	<u>T8</u>	86,179,56
Deductions: Gain on disposal of assets per financial statements Dividends not travable under section 63 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss Deferred and presidential sections of the section of	402 403 404 406 409 411 413	T8	86,179,56 2,367,71
Deductions: Gain on disposal of assets per financial statements Dividends not taxable under section 63 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss Deferred and prepared expenses Scientific research expenses claimed in year Tax reserves end of year Reserves from financial statements - balance at beginning of year	402 403 404 406 409 411 413 414	<u>T8</u>	2,367,71 3,183,84
Deductions: Sain on disposal of assets per financial statements Dividends not toxable under section 83 Capital cost allowance from Schidule 9 Terminal loss from Schidule 9 Allowable bouriness investment loss Deferred and prise repeated 8 Schieffich research species Schieffich in part Schieffich of yeart Cartifichtions to deferred income plans	402 403 404 406 409 411 413	T8	2,367,71 3,183,84
Deductions: Dividence for the state of assets per financial statements. Dividends not trasable under section 83. Capital cost allowance from Schodule 9. Terminal loss from Schodule 9. Allowable business investment loss. Deterred and prison Schodule 9. Allowable business investment loss. Deterred and prison sections. Scientific research expenses. Scientific research or power. Terminal section of the section	402 403 404 406 409 411 413 414 416	T8	2,367,71 3,183,84
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Deductions: Gain on disposals of assets per financial statements Dividends not issable under section 53 Capital cost allowance for Montale 9 Terminal loss from Schedule 9 Terminal loss	402 403 404 406 409 411 413 414 416 305 305 306	T8	2,367,71 3,183,84
Deductions: Gain on disposal of assets per financial statements Dividends not trassible under section 53 Capital cost allowance from Schedule 9 Terminal loss from Schedule 9 Terminal lo	402 403 404 406 409 411 413 414 416 305 306	T8	2,367,71 3,183,84
Deductions: Gain on disposal of assets per financial statements Dividends not tasable under section 83 Capital cost allevance to burst facilities Capital cost allevance to burst facilities Allowable business investment loss Deterred and prepared expenses Deterred and prepared expenses Carried research consist statements - balance at bestimate of year Tax reserves and of year Reserves from financial statements - balance at bestimates of year Reserves from financial statements - balance at bestimates of year Reserves from financial statements - balance at bestimates Destinates of year Reserves from financial statements - balance at the statement of the statement	402 403 404 406 409 411 413 414 416 305 306 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
Debuctions: (alm on disposal of assets per financial statements Discleron for tratable under sector 87 Capital cost allowance from Schodule 8 Acquisite cast allowance from Schodule 8 Terminal toss from Schodule 8 Acquisite characteristics of the schodule business researed toss Deferred and prepaid expenses. Deferred and prepaid expenses daimed in year Tar reviews and of year beginned or year beginned from the properties of year beginning to year beginning	402 403 404 406 409 411 413 414 416 305 306 306 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
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Debuctions: (alm on disposal of assets per financial statements Discleron for tratable under sector 87 Capital cost allowance from Schodule 8 Acquisite cast allowance from Schodule 8 Terminal toss from Schodule 8 Acquisite chair schodule business research toss Deferred and prepaid expenses. Deferred and prepaid expenses daimed in year Tar reviews and of year personal chair schodule business and disclerons. Subance at beginning of year personal database from the personal per	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
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Debuctions: Gain on disposal of assets per financial statements Division for not studied under section 3D Capital cost advances from Schoolde B. Capital cost advances from Schoolde B. Advances because the Schoolde B. Advances because investmenter loss Deferred and prepad expenses. Deferred and prepad expenses claimed in year Tar reserves and of year Schoolde. Schoolde	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
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Debuctions: (alm on disposal of assets per financial statements Dividendin not trainable under section 80 Calier on disposal of assets per financial statements Dividendin not trainable under section 80 Capital cost afformace him Schedule 8 Terminal loss from Schedule 8 Almosales business investment loss Deferred and prepaid oppenses Deferred and prepaid oppenses Deferred and prepaid oppenses Reserves from financial statements - balance all beginning of year Reserves from financial statements - balance all beginning of year Reserves from financial statements - balance all beginning of year Reserves from financial statements - balance all beginning of year Reserves from financial statements - balance all beginning of year Reserves from financial statements in the properties of years Reserved propriet statements of the propriet of years Reserved Perspenses ARO Payments - Deductible for Tax when Paid (TA 137, 4) Election - Capital contributions Reserved ITA 137, 40 Election -	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
Debuctions: (Sain on disposal of assets per financial statements) Displands not resulted and section 25 Capital cost administration from Schoolse 8 Terminal toss from Schoolse 8 Allowable business investmenter loss Deferred and prepade appresses Deferred and prepade appresses Deferred and prepade appresses Tar reserves und of year Contributions to deferred income plans Book schooned polit vertiler or patienterable Equily in income from subsidiary or affiliates Interest capitalized for accounting deducted for tax Capital Lesses Paris descriptions Non-lessels imputed interest income on deferral and variance accounts Contributions An O Payments - Deductible for Tax when Paid ITA 13/7.4) Election - Capital Contributions Received ARO Payments - Deductible for Tax when Paid ITA 13/7.4) Election - Capital Contributions Received Received Received Received Received ITA 23/7.4) Election - Capital Contributions Received Received Received Received ITA 23/7.4) Election - Capital Contributions Received Received Received ITA 23/7.4) Election - Capital Contributions Received Received Received Received ITA 23/7.9) Election - Reply Lesse Inducement to Deferred Received Receive	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
Debuctions: (Sain on disposal of assets per financial statements) Dividends not trassible under section 83 Dividends not trassible under section 83 Terminal foot trassible under section 83 Terminal foot from Scheduler 8 Terminal foot from Scheduler 8 Allowsible business investment loss Deferred and preparle eigenness Deferred and preparle eigenness Deferred and preparle eigenness Tar reserves most of year Tar reserves most of year Reserves from financial statemers - balance at Perserves from financial statemers - balance at Contrabusion 16 deferred income javas Book Accorde of princial statemers - balance at Deferred exhections Desir Accorded from the common plants Book Accorde of princial statemers - balance at Desir Accorded from the common plants Book Accorde of princial statemers - balance at Desir debuctions Desir Accorded from the common plants Book Accorded of principal statemers Non-assistation and principal statemers Desir Accorded from the common of deferral and variance according deducted for tax Capital Lasses Payments ARO Payments - Deductible for Tax when Paid (Tr.A. 13/2/A) Essection - Apply Lasse Inducement to cost of Lasseddis Deferred Persente — Tr.A. 20(1)(in) reserve Principal protrior of trace payments Principal protrior of trace payments Principal protrior of trace payments Decomes	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
Debuctions: (Sain on disposal of assets per financial statements) Dividends not trassible under section 83 Dividends not trassible under section 83 Terminal foot trassible under section 83 Terminal foot from Scheduler 8 Terminal foot from Scheduler 8 Allowsible business investment loss Deferred and preparle eigenness Deferred and preparle eigenness Deferred and preparle eigenness Tar reserves most of year Tar reserves most of year Reserves from financial statemers - balance at Perserves from financial statemers - balance at Contrabusion 16 deferred income javas Book Accorde of princial statemers - balance at Deferred exhections Desir Accorded from the common plants Book Accorde of princial statemers - balance at Desir Accorded from the common plants Book Accorde of princial statemers - balance at Desir debuctions Desir Accorded from the common plants Book Accorded of principal statemers Non-assistation and principal statemers Desir Accorded from the common of deferral and variance according deducted for tax Capital Lasses Payments ARO Payments - Deductible for Tax when Paid (Tr.A. 13/2/A) Essection - Apply Lasse Inducement to cost of Lasseddis Deferred Persente — Tr.A. 20(1)(in) reserve Principal protrior of trace payments Principal protrior of trace payments Principal protrior of trace payments Decomes	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
Debuctions: (Sain on disposal of assets per financial statements) Dividends not trassible under section 83 Dividends not trassible under section 83 Terminal foot trassible under section 83 Terminal foot from Scheduler 8 Terminal foot from Scheduler 8 Allowsible business investment loss Deferred and preparle eigenness Deferred and preparle eigenness Deferred and preparle eigenness Tar reserves most of year Tar reserves most of year Reserves from financial statemers - balance at Perserves from financial statemers - balance at Contrabusion 16 deferred income javas Book Accorde of princial statemers - balance at Deferred exhections Desir Accorded from the common plants Book Accorde of princial statemers - balance at Desir Accorded from the common plants Book Accorde of princial statemers - balance at Desir debuctions Desir Accorded from the common plants Book Accorded of principal statemers Non-assistation and principal statemers Desir Accorded from the common of deferral and variance according deducted for tax Capital Lasses Payments ARO Payments - Deductible for Tax when Paid (Tr.A. 13/2/A) Essection - Apply Lasse Inducement to cost of Lasseddis Deferred Persente — Tr.A. 20(1)(in) reserve Principal protrior of trace payments Principal protrior of trace payments Principal protrior of trace payments Decomes	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
Debuctions: (Sain on disposal of assets per financial statements) Dividends not trassible under section 83 Dividends not trassible under section 83 Terminal foot trassible under section 83 Terminal foot from Scheduler 8 Terminal foot from Scheduler 8 Allowsible business investment loss Deferred and preparle eigenness Deferred and preparle eigenness Deferred and preparle eigenness Tar reserves most of year Tar reserves most of year Reserves from financial statemers - balance at Perserves from financial statemers - balance at Contrabusoria to deferred income jaira Book raccored port versione or particular properties Egglu pri income from subsidiary or affiliates Divident debuctions Dividend ericherism income on deferral and variance accounts Scientific Research & Experimental Development Inputed Infa 13/2/A Excelor - Apply Lases Inducement to cost of Laserdols ARO Payments - Deductible for Tax when Paid Iffa 13/2/A Excelor - Apply Lases Inducement to cost of Laserdols Pricolar protrio of trace payments Pricolar protrio or from protrio or traces Pricolar protrio or from protrio or traces payments Pricolar protrio or from protrio or come.	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
Debuctions: (Sain on disposal of assets per financial statements) Dividends not trassible under section 83 Dividends not trassible under section 83 Terminal foot trassible under section 83 Terminal foot from Scheduler 8 Terminal foot from Scheduler 8 Allowsible business investment loss Deferred and preparle eigenness Deferred and preparle eigenness Deferred and preparle eigenness Tar reserves most of year Tar reserves most of year Reserves from financial statemers - balance at Perserves from financial statemers - balance at Contrabusoria to deferred income jaira Book raccored port versione or particular properties Egglu pri income from subsidiary or affiliates Divident debuctions Dividend ericherism income on deferral and variance accounts Scientific Research & Experimental Development Inputed Infa 13/2/A Excelor - Apply Lases Inducement to cost of Laserdols ARO Payments - Deductible for Tax when Paid Iffa 13/2/A Excelor - Apply Lases Inducement to cost of Laserdols Pricolar protrio of trace payments Pricolar protrio or from protrio or traces Pricolar protrio or from protrio or traces payments Pricolar protrio or from protrio or come.	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	86,179,56 2,367,71 3,183,84 680,00
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Debuctions: (Sain on disposal of assets per financial statements Dividendin for tratible under section 80 Calino on disposal of assets per financial statements Dividendin for tratible under section 80 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Terminal loss from Schedule 8 Capital cost allowance between the section of the	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	96,179,56 2,367,71 3,163,84 680,00 1,065,17
Debuctions: (Sain on disposal of assets per financial statements Dividendin for tratible under section 80 Calino on disposal of assets per financial statements Dividendin for tratible under section 80 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Terminal loss from Schedule 8 Capital cost allowance between the section of the	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	96,179,56 2,367,71 3,163,84 680,00 1,065,17
Debuctions: (alm on disposal of assets per financial statements Discinnon classification of tracible under sector 30 Capital cost allowance from Schoolde 8 Terminal tost from Schoolde 8 Terminal tost from Schoolde 8 Terminal tost from Schoolde 8 Alkoudeb business investment toss Deferred and prepared expenses. Ter reviews and of year depenses claimed in year 1 Ter reviews and of year depenses and prepared expenses of the properties of the properties of the properties of year of the year of yea	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395	T8	96,179,56 2,367,71 3,163,84 680,00 1,065,17
Debuctions: Gain on disposal of assets per financial statements Division for the training of the control of th	402 403 404 404 408 408 409 411 413 305 305 305 305 305 305 305 305 305 30	T8	96,179,56 2,367,71 3,163,84 680,00 1,065,17
Debustions: Gain on disposal of assets per financial statements. Discision on deposal of assets per financial statements. Discision on transition under section 25 Capital data discisions time Statement in Scheduler 8. Terminal loss from Scheduler 8. Allowable business investment loss Deferred and prepade expenses. Deferred and prepade expenses. Tax reserves and of year 7. Tax reserves and year 7. T	402 403 404 404 406 409 409 411 413 413 413 306 306 306 305 305 305 305 305 305 305 305 305 305	T8	2,967,170,56 3,163,84 680,00 1,065,177 1,065,177 24,184,38
Debetations: Gain on disposal of assets per financial statements Discincent not tracible under sector 30 Capital cost alloware from Schools 19 Capital cost 19	402 403 404 404 408 408 409 411 413 414 414 416 305 305 305 305 305 305 305 305 305 305	TE T13 T13 T13 Calculated Calculated	66,880,89 86,179,56 3,183,84,86 680,00 1,085,17 1,085,17 1,085,17 1,085,17 1,085,17
Diodends and trainable under section 81 Capital Coal advances from Schreide 8 Terminal loss from Schreide 8 Terminal loss from Schreide 8 Allowaleb basiness investment loss Deferred and prepaid expenses Coertific research represes claimed in year Tax inserves end of year Coertific research reconsistationers - bullance at Coertifications to deferred income plans Book income of port version or partners Desk income of port version or partners Desk income of port version or partners Coertifications to deferred income plans Non-taxoble inputed interest income on deterral and variance accounts Coertific Research & Experimental Development Coertification Tax in 12(7.4) Excession Coeption Tax in 12(7.4) Excession Coeption Received Tix 12(7.4) Excession Coeption Received Coertification - Apply Leave Inducement to cost of Leaseholds Deferred Reference Lease Received Lease Publication - Capital Coertifications Received Coertification - Apply Leave Inducement to cost of Leaseholds Deferred Revenue - Trix 20(1)(in) reserve	402 403 404 404 406 406 407 411 413 305 306 306 306 307 307 307 307 307 307 307 307 307 307	TE J13 J13 J13 Calculated	96,179,56 2,967,71 3,163,84 680,00 1,065,17 1,065,17 24,184,38

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Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

			Non-	
Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Distribution Portion	Utility Balance
			Portion	
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years	<u>T1</u>	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	<u>T1</u>	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non- Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	<u>T1</u>	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

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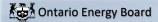


Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Class Discription	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIP (column 8 plus column 6 minus column 3 plus column 7) (if negative, enter "0")	(11) Net capital cost additions of AliP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	UCC at the end of the test year (column 9 minus column 17)
	Buildings, Distribution System (acq'd post 1987)		\$ 134,289,026							\$ 134,289,026	\$ -	s -	0.50		\$ -	4%			\$ 5,371,561	\$ 128,917,46
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]		\$ 80,719,151	887,335	887,335					\$ 81,606,486	\$ -	\$ 887,335	0.50	\$ 443,668	\$ -	6%			\$ 4,923,009	\$ 76,683,47
2	Distribution System (acq'd pre 1988)		\$ 38,707,996							\$ 38,707,996	\$.	s -		\$ -	\$ -	6%			\$ 2,322,480	\$ 36,385,51
	Buildings (acq'd pre 1988)	B8	\$ 4,564,141							\$ 4,564,141	\$.	s -		\$ -	\$ -	5%			\$ 228,207	\$ 4,335,93
	Certain Buildings; Fences	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.50		s -	10%			\$.	S -
	General Office Equipment, Furniture, Fixtures		\$ 12,391,894	1,501,981	1,501,981					\$ 13,893,875	*	\$ 1,501,981	0.50		\$ -	20%			\$ 2,928,973	\$ 10,964,90
	Motor Vehicles, Fleet		\$ 6,390,702	2,233,064	2,233,064					\$ 8,623,766	\$ -	\$ 2,233,064	0.50		\$ -	30%			\$ 2,922,089	\$ 5,701,67
	Certain Automobiles		\$ -							s -	\$ -	\$ -	0.50		\$ -	30%			\$.	\$ -
	Computer Application Software (Non-Systems)		s -	2,044,296	2,044,296					\$ 2,044,296		\$ 2,044,296	0.00		\$.	100%			\$ 2,044,296	\$ -
	Lease #1		\$ -							\$ -	\$ -	\$.	0.00			NA				\$ -
13 2	Lease # 2 Lease # 3		\$.							s -	s .	s .	0.00	s -		NA NA				S -
13 2	Lease # 3									s .	-	,	0.00		s .	NA NA				3 .
13 4	Lease # 4 Limited Period Patents, Franchises, Concessions or Licences		\$ -							s .	s -	s -	0.00		\$.	NA NA				s -
	Eligible Capital Property (acg'd pre Jan 1, 2017)		\$ 8.064,739							\$ 8,064,739		s .	0.00	\$.	*	7%			\$ 564 532	\$ 7.500.20
	Eligible Capital Property (acq o pre 3an 1, 2017)		\$ 58.041.247	105.683	105.683					\$ 58,146,930		\$ 105.683	0.50		s -	5%			\$ 2,909,989	\$ 55,236,94
	Elec. Generation Equip. (Non-Bidng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	\$ 1,504,401	100,003	100,063					\$ 1,504,401	\$.	e .	0.50	\$ 02,042		8%			\$ 120,352	\$ 1,384.04
	Fibre Optic Cable		\$ 3,724,786	17.278	17.278					\$ 3,742,064	\$.	\$ 17.278	0.50			12%			\$ 450,084	\$ 3,291,97
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8	\$ 3,724,700 e	17,270	17,270					e 3,742,004	e .	e 17,270	2.33	\$ 0,039 \$.	e .	30%			\$ 400,004	e 3,291,97
	Certain Clean EnergyEnergy-Efficient Generation Equipment Certain Clean EnergyEnergy-Efficient Generation Equipment	B8	\$ 50.265							\$ 50.265	e .		1.00		\$.	50%			\$ 25 132	\$ 25.13
	Computers & System Software (acc/d post Mar 22/04 and pre Mar 19/07)	B8	\$ 50,265							\$ 219			1.00	\$.	2 .	45%			\$ 25,132	\$ 12
	Data Network Infrastructure Equipment (accid post Mar 22/04)		\$.							\$:	\$.	\$.	0.50		s .	30%			\$.	\$.
	Distribution System (acc)'d post Feb 22/05)	B8	\$ 645.877.023	69.387.174	69.387.174					\$ 715,264,197	s .	\$ 69.387.174	0.50			8%			\$ 59.996.623	\$ 655,267,57
	General Purpose Computer Hardware & Software (acc'd post Mar 18/07)	B8	\$ 753,786	1 160 674	1,160,674					\$ 1,914,460	s -	\$ 1,160,674	0.50	\$ 580,337	s -	55%			\$ 1,372,138	\$ 542.32
95	CWIP	B8	s -							s -	s -	s -	0.00	s -	s -	0%			s .	s -
		B8	s -							s -	s -	s -		s -	s -					\$.
		B8	s -							s -	s -	s -		s -	s -					\$.
		B8	\$ -							\$ -	\$ -	s -		s -	\$ -					s -
		B8	s -							s -	s -	s -		s -	s -					s -
			\$ -							s -	\$ -	\$ -		\$ -	\$ -					\$ -
			\$ -							s -	\$ -	s -		\$ -	\$ -					\$ -
			\$ -							s -	\$ -	\$ -		\$ -	\$ -					s -
		B8	\$ -							s -	\$ -	s -		s -	\$ -					s -
	TOTALS		\$ 995,079,374	\$ 77,337,485	\$ 77,337,485	\$ -	\$ -	\$ -	\$ -	\$ 1,072,416,859	\$ -	\$ 77,337,485		\$ 37,646,595	\$ -		\$ -	\$ -	\$ 86,179,564	T1 \$ 986,237,29

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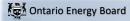


Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Continuity of Neserves						Test Year A	Adjustments	1			
Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Additions	Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	<u>B13</u>	0		0				0		0	1
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(I)	<u>B13</u>	2,367,712		2,367,712				2,367,712		0	1
Reserve for goods and services not delivered ss. 20(1)(m)	<u>B13</u>	0		0				0		0	1
Reserve for unpaid amounts ss. 20(1)(n)	<u>B13</u>	0		0				0		0	1
Debt & Share Issue Expenses ss. 20(1)(e)	<u>B13</u>	0		0				0		0	I .
Other tax reserves	<u>B13</u>	0		0				0		0	,
		0		0				0		0	
		0		0				0		0	
Total		2,367,712	0	2,367,712	<u>T1</u>	0	0	2,367,712	<u>T1</u>	0	0
Financial Statement Reserves (not deductible for Tax Purposes)											
General Reserve for Inventory Obsolescence (non-specific)	<u>B13</u>	0		0				0		0	
General reserve for bad debts	<u>B13</u>	3,183,844		3,183,844				3,183,844		0	I .
Accrued Employee Future Benefits:	<u>B13</u>	0		0				0		0	l .
- Medical and Life Insurance	<u>B13</u>	0		0				0		0	I .
-Short & Long-term Disability	<u>B13</u>	0		0				0		0	l .
-Accmulated Sick Leave	<u>B13</u>	0		0				0		0	J.
- Termination Cost	<u>B13</u>	0		0				0		0	
- Other Post-Employment Benefits	<u>B13</u>	0		0				0		0	
Provision for Environmental Costs	<u>B13</u>	0		0				0		0	l .
Restructuring Costs	<u>B13</u>	0		0				0		0	
Accrued Contingent Litigation Costs	<u>B13</u>	0		0				0		0	
Accrued Self-Insurance Costs	<u>B13</u>	0		0				0		0	
Other Contingent Liabilities	<u>B13</u>	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>B13</u>	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>B13</u>	0		0				0		0	,
Other	<u>B13</u>	0		0				0		0	
		0		0				0		0	
		0		0				0		0	1
Total		3,183,844	0	3,183,844	T1	0	0	3,183,844	T1	0	0



Utility Name Hydro Ottawa Limited

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499,7472

Email Address RegulatoryAffairs@hydroottawa.com

ORIGINAL

Last COS Re-based Year 2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your rate application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assigning you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Instructions

Purnos

Version 1.10

The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab To and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology

To calculate the PILs for the Test Year:

- 1) input the balances from the income tax return of the Historical Year in tabs H1 to H13. 2) input the balances for the Bridge Year and the Test Year. Inputs should include:
- non-deductible expenses (Schedule 1 B1 and T1)
- loss carryforward (Schedule 4 B4 and T4)
- capital cost allowance (Schedule 8 B8 and T8)
- non-deductible reserves (Schedule 13 B13 and T13)

3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes

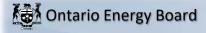
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

Attachment G UPDATED



Income Tax/PILs Workform for 2020 Filers

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1. Info

S. Summary

A. Data Input Sheet

B. Tax Rates & Exemptions

Historical Year H0 - PILs, Tax Provision Historical Year

H1 - Adj. Taxable Income Historical Year

H4 - Schedule 4 Loss Carry Forward Historical Year

H8 - Schedule 8 Historical

H13 - Schedule 13 Tax Reserves Historical

Bridge Year <u>B0 - PILs,Tax Provision Bridge Year</u>

B1 - Adj. Taxable Income Bridge Year

B4 - Schedule 4 Loss Carry Forward Bridge Year

B8 - Schedule 8 CCA Bridge Year

B13 - Schedule 13 Tax Reserves Bridge Year

Test Year To PILs, Tax Provision Test Year

T1 Taxable Income Test Year

T4 Schedule 4 Loss Carry Forward Test Year

T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

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Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference	
Adjustments required to arrive at taxable income	as below	-20,045,429
Test Year - Payments in Lieu of Taxes (PILs)	<u>T0</u>	8,476,530
Test Year - Grossed-up PILs	<u>T0</u>	11,532,693
Effective Federal Tax Rate	<u>T0</u>	15.0%
Effective Ontario Tax Rate	<u>T0</u>	11.5%
Calculation of Adjustments required to arrive at Taxable Income		
Regulatory Income (before income taxes)	<u>T1</u>	52,353,088
Taxable Income	<u>T1</u>	32,307,659
Difference	calculated	-20,045,429 as above

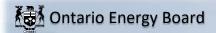
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Income Tax/PILs Workform for 2020 Filers

Integrity Checks

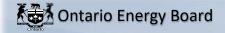
The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

Item	Utility Confirmation (Y/N)	Notes
1 The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2 The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year		
UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
3		
The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years file	V	
4 in the application		
5 Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6 A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7 CCA is maximized even if there are tax loss carry-forwards	Υ	
Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A		
analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario	Y	
8 reports, and actuarial valuations.		
9 The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	



			Test Year	Bridge Year
Rate Base		s	\$ 1,390,889,704	\$ 1,363,581,802
Return on Ratebase				
Deemed ShortTerm Debt %	4.00%	Т	\$ 55,635,588	W = S * T
Deemed Long Term Debt %	56.00%	U	\$ 778,898,234	X = S * U
Deemed Equity %	40.00%	V	\$ 556,355,882	Y = S * V
Short Term Interest Rate	2.75%	Z	\$ 1,529,979	AC = W * Z
Long Term Interest	3.44%	AA	\$ 26,794,099	AD = X * AA
Return on Equity (Regulatory Income)	9.41%	AB	\$ 52,353,088	AE = Y * AB T1
Return on Rate Base			\$ 80,677,166	AF = AC + AD + AE

Questions that must be answered	Historical Year	Bridge Year	Test Year
Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? If Yes, please describe the tax treatment in the manager's summary.	Yes	Yes	Yes
8. Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No



Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax General Corporate Rate Federal Tax Abatement Adjusted Federal Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction Federal Income Tax	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax Combined Federal and Ontario	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business Federal Small Business Limit Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

<u>Notes</u>

- 1. The Ontario Energy Board's proxy for taxable capital is rate base.
- 2. Regarding the small business deduction, if applicable,
 - a. If taxable capital exceeds \$15 million, the small business rate will not be applicable.
 - b. If taxable capital is below \$10 million, the small business rate would be applicable.
 - c. If taxable capital is between \$10 million and \$15 million, the appropriate small business rate will be calculated.

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Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

Regulatory Taxable Income Combined Tax Rate and PILs

Ontario Tax Rate (Maximum 11.5%) Federal tax rate (Maximum 15%) Combined tax rate (Maximum 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits
Total Tax Credits

Corporate PILs/Income Tax Provision for Historical Year

Wires Only

\$ 11,083,740 **A**

11.50%

15.00%

В

С

26.50% **D = B+C**

\$ 2,937,191 E = A * D

\$ 85,000 F

G G

\$ 85,000 H = F + G

\$ 2,852,191 I = E - H

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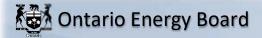


Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal	Non-Distribution	Historic
Income before PILs/Taxes	(A + 101 + 102)	Entity 48,049,664	Eliminations	Wires Only 48,049,664
Additions:	•			
Interest and penalties on taxes Amortization of tangible assets	103	5,000 57,126,035		5,000 57,126,035
Amortization of intangible assets	106	0		(
Recapture of capital cost allowance from Schedule 8	107	0		(
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10 Loss in equity of subsidiaries and affiliates	110	0		· ·
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2 Taxable capital gains from Schedule 6	112 113	0		
Political contributions	114	0		(
Deferred and prepaid expenses	116	0		(
Scientific research expenditures deducted on financial statements Capitalized interest	118 119	0		
Non-deductible club dues and fees	120	0		(
Non-deductible meals and entertainment expense Non-deductible automobile expenses	121	85,000 0		85,00
Non-deductible life insurance premiums	122 123	0		
Non-deductible company pension plans	124	0		
Tax reserves deducted in prior year Reserves from financial statements – balance at the end of the year	125 126	2,367,712 3,183,844		2,367,71: 3,183,84
Soft costs on construction and renovation of buildings	127	3,103,044		3,103,04
Capital items expensed	206	0		
Debt issue expense	208 212	0		-
Development expenses claimed in current year Financing fees deducted in books	212	0		
Gain on settlement of debt	220	0		
Non-deductible advertising	226 227	0		-
Non-deductible interest Non-deductible legal and accounting fees	227	0		-
Recapture of SR&ED expenditures	231	0		
Share issue expense	235	0		1
Write down of capital property	236	0		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		(
Other additions	295	0		
Interest Expensed on Capital Leases Realized Income from Deferred Credit Accounts	295	0		(
Pensions	295	780,000		780,00
Non-deductible penalties	295	0		(
	295 295	0		(
ARO Accretion expense		0		(
Capital Contributions Received (ITA 12(1)(x))		0		(
Lease Inducements Received (ITA 12(1)(x)) Deferred Revenue (ITA 12(1)(a))		0		(
Prior Year Investment Tax Credits received		0		(
Current Year Investment Tax Credits received		85,000		85,000
				Č
				(
				(
				(
Total Additions		64,632,591	0	64,632,591
Total Additions		04,002,001		04,032,03
Deductions:				
Gain on disposal of assets per financial statements	401	0		(
Non-taxable dividends under section 83 Capital cost allowance from Schedule 8	403	93,630,000		93,630,00
Terminal loss from Schedule 8	404	0		
Allowable business investment loss	406	0		
Deferred and prepaid expenses Scientific research expenses claimed in year	409 411	0		
Tax reserves claimed in current year	413	2,367,712		2,367,71
Reserves from financial statements - balance at beginning of year	414	3,183,844		3,183,84
Contributions to deferred income plans Book income of joint venture or partnership	416 305	680,000 0		660,00
Equity in income from subsidiary or affiliates	306	0		
Other deductions Interest controlled for accounting deducted for tay	395	0		
Interest capitalized for accounting deducted for tax Capital Lease Payments	395	0		-
Non-taxable imputed interest income on deferral and variance accounts	395	0		
Scientific Research & Experimental Development Expenses	395	1,736,959		1,736,95
ARO Payments - Deductible for Tax when Paid	395	0		-
ITA 13(7.4) Election - Capital Contributions Received		0		(
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds	1	0		
Deferred Revenue - ITA 20(1)(m) reserve Principal portion of lease payments	+	0		-
Lease Inducement Book Amortization credit to income		0		
Financing fees for tax ITA 20(1)(e) and (e.1)		0		
				(
				(
				(
	-			(
				(
		404 5		(0.4.500.54
Total Deductions	+	101,598,515	0	101,598,515
Net Income for Tax Purposes	+	11,083,740	0	11,083,740
•		,		,,
Charitable donations from Schedule 2	311	0		
Taxable dividends received under section 112 or 113	320	0		(
Non-capital losses of previous tax years from Schedule 4 Net capital losses of previous tax years from Schedule 4	331 332	0		(
Limited partnership losses of previous tax years from Schedule 4	335	0		(
TAXABLE INCOME		11,083,740	0	11,083,740

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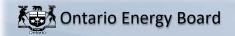


Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction Actual Historical	Total	Non- Distribution Portion	Utility Balance	<u>B4</u>
,	Total	Non-	Litility Polones	
Net Capital Loss Carry Forward Deduction	Total	Distribution Portion	Utility Balance	



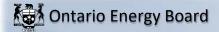
Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Y
1	Buildings, Distribution System (acq'd post 1987)	\$ 134,289,026		\$ 134,289,0
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	\$ 80,719,151		\$ 80,719,1
2	Distribution System (acq'd pre 1988)	\$ 38,707,996		\$ 38,707,9
3	Buildings (acq'd pre 1988)	\$ 4,564,141		\$ 4,564,14
6	Certain Buildings; Fences	\$ -		\$ -
8	General Office Equipment, Furniture, Fixtures	\$ 12,391,894		\$ 12,391,8
10	Motor Vehicles, Fleet	\$ 6,390,702		\$ 6,390,7
10.1	Certain Automobiles	\$ -		\$ -
12	Computer Application Software (Non-Systems)	\$ -		-
13 ₁	Lease # 1	\$ -		\$ -
13 2	Lease # 2	\$ -		\$ -
13 ₃	Lease # 3	\$ -		\$ -
13 4	Lease # 4	\$ -		\$ -
14	Limited Period Patents, Franchises, Concessions or Licences	\$ -		
14.1	Eligible Capital Property (acq'd pre 2017)	\$ 8,064,739		\$ 8,064,7
14.1	Eligible Capital Property (acq'd post 2016)	\$ 58,041,247		\$ 58,041,24
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	\$ 1,504,401		\$ 1,504,4
42	Fibre Optic Cable	\$ 3,724,786		\$ 3,724,73
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ -		\$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ 50,265		\$ 50,2
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	\$ 219		\$ 2
46	Data Network Infrastructure Equipment (acg'd post Mar 22/04)	\$ -		\$ -
47	Distribution System (acq'd post Feb 22/05)	\$ 645,877,023		\$ 645,877,0
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	\$ 753,786		\$ 753,78
95	CWIP	\$ -		\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
	SUB-TOTAL - UCC	995,079,374		0 995,079,

B13 B13 B13 B13 B13

<u>B13</u>

B13 B13



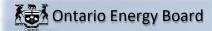
Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only
2 % 1 %			
Capital gains reserves ss.40(1)			0
Tax reserves not deducted for accounting pu			0.007.740
Reserve for doubtful accounts ss. 20(1)(I)	2,367,712		2,367,712
Reserve for undelivered goods and services not			0
rendered ss. 20(1)(m) Reserve for unpaid amounts ss. 20(1)(n)			0
			0
Debt & share issue expenses ss. 20(1)(e) Other tax reserves			0
Other tax reserves			0
			0
			0
			0
			0
TF - 4 - 1	0.007.740		0 207 740
Total	2,367,712	0	2,367,712
Financial Statement Reserves (not deductible	e for Tax Purposes)		
General reserve for inventory obsolescence			0
(non-specific)			0
General reserve for bad debts	3,183,844		3,183,844
Accrued Employee Future Benefits:			0
- Medical and Life Insurance			0
-Short & Long-term Disability			0
-Accmulated Sick Leave			0
- Termination Cost			0
- Other Post-Employment Benefits			0
Provision for Environmental Costs			0
Restructuring Costs			0
Accrued Contingent Litigation Costs			0
Accrued Self-Insurance Costs			0
Other Contingent Liabilities			0
Bonuses Accrued and Not Paid Within 180			0
Days of Year-End ss. 78(4)			Ü
Unpaid Amounts to Related Person and Not			0
Paid Within 3 Taxation Years ss. 78(1)			0
Other			0
			0
			0
Total	3,183,844	0	3,183,844

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Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

Regulatory Taxable Income

	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate	
Ontario (Max 11.5%)	11.5%	11.5%	########	11.5% B	š
Federal (Max 15%)	15.0%	15.0%	########	15.0% C	;

Combined effective tax rate (Max 26.5%)

Total Income Taxes

Investment Tax Credits Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Bridge Year

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Wires Only

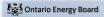
Reference

24,184,384 **A**

\$	6,408,862	E = A * D
\$	85,000	F
2		G

85,000 H = F + G

6,323,862 I = E - H



Adjusted Taxable Income - Bridge Year

		Reference	E0 330 30
Income before PILs/Taxes	(A + 101 + 102)		50,779,78
Additions: Interest and penalties on taxes	103	1	5.00
Amortization of tangible assets	104		59,374,33
Amortization of intangible assets Recapture of capital cost allowance from	106		
Schedule 8 Income inclusion under subparagraph	107	<u>B8</u>	
13(38)(d)(iii)	108		
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,00
Charitable donations and gifts from Schedule 2	112		
Taxable capital gains	113		
Political contributions Deferred and prepaid expenses	114		
Scientific research expenditures deducted on	118		
financial statements Capitalized interest	119		
Non-deductible club dues and fees Non-deductible meals and entertainment	120		
expense	121		85,00
Non-deductible automobile expenses Non-deductible life insurance premiums	122		
Non-deductible company pension plans	124		
Tax reserves deducted in prior year Reserves from financial statements-balance at	125	<u>B13</u>	2,367,71
end of year	126	<u>B13</u>	3,183,84
Soft costs on construction and renovation of buildings	127	<u></u>	
Capital items expensed	206 208	-	
Debt issue expense Development expenses claimed in current year	208		
Financing fees deducted in books	212		
Gain on settlement of debt	220		
Non-deductible advertising Non-deductible interest	226 227	-	
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231	 	
Share issue expense	235		
Write down of capital property Amounts received in respect of qualifying	236		
environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions			
Interest Expensed on Capital Leases Realized Income from Deferred Credit	295		
Accounts	295		700.00
Pensions Non-deductible penalties	295 295		780,00
	295		
ARO Accretion expense	290		
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Deterrient Revention (177 fz.) (170) For Year Investment Tax Credits received Current Year Investment Tax Credits received			85,00
Prior Year Investment Tax Credits received			
Prior Year Investment Tax Credits received			85,00
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions			85,00
Prior Year Investment Tax Credits received Lurrent Year Investment Tax Credits received Total Additions Deductions:			85,00 85,00 66,880,89
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Total Additions Deductions Evaluations Sederorium	401		85,00 85,00 66,880,89
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Fotal Additions Fotal Additions Coain or disgosal of assets per financial Coain or disgosal of assets per financial Dividends not studie under section 83 Capital Cost allowance from Schedule 48	402 403	88	66,880,89 86,179,56
Prior Year Investment Tax Credits received Lurrent Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial sistements sistements Capital Cost allowance from Schedule 8 Tamminal loss find-schedule 8	402 403 404	B8 B8	66,880,89 86,179,56
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Fotal Additions Fotal Additions Coain or disgosal of assets per financial Coain or disgosal of assets per financial Dividends not studie under section 83 Capital Cost allowance from Schedule 48	402 403		66,880,89 86,179,56
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Fotal Additions Fotal Additions Deductions: Gain or disposal of assets per financial Gain or disposal of assets per financial Capital cost alforace from Schedule 8 Terminal loss from Schedule 9 Terminal loss from Schedule 9 Terminal loss from Schedule 9	402 403 404 406		66,880,89 86,179,56
Prior Year Investment Tax Credits received Lurrent Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial solutions: Capital cost allowance from Schedule 8 Allowable business investment loss Deferrend and period seperates Scientific research expenses claimed in year Scientific research expenses claimed in year Tax reserves claimed in current year	402 403 404 406 409 411 413	B8	66,880,89 66,880,89
Prior Year Investment Tax Credits received Lurrent Year Investment Tax Credits received Forting Additions Deductions: Cain on disposal of assets per financial sistements Dividend not issoible under section 83 Capital cost altivories form Schedule 8 Allowable business investment loss Deferred and prepared separeses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves in Cain fortical sistements - Johannes Sold of the Carteria Cain Cain Cain Cain Cain Cain Cain Ca	402 403 404 406 409 411 413	B8	66,880,89 66,880,89 86,179,56
Prior Year Investment Tax Credits received Durrent Year Investment Tax Credits received Total Additions Defending to the Company of the Co	402 403 404 406 409 411 413 414 416	B8	85,00 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Total Additions Total Additions Total Additions Debuctions: Gain on signost of assets per financial Divisional to subject of assets per financial Divisional not be subject of assets per financial Adoubtion Schedule 8 Adoubtion Schedule 8 Adoubtion Schedule 8 Adoubtion Schedule 9 Adoubtion Schedu	402 403 404 406 409 411 413	B8	85,00 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received Durrent Year Investment Tax Credits received Foots Additions Deductions: Cain on disposal of assets per financial sistements Sestements Cain on disposal of assets per financial sistements Deductions Cain on disposal of assets per financial sistements Deduction Defended and pragned operates Scientific researchin operates claimed in year Tax reserves drom financial sistements - bulance at beginning of year Reserves drom financial sistements - bulance at beginning of year Reserves drom financial sistements - bulance at beginning of year vesture or partnership Equity in income from substidiary or affiliates	402 403 404 406 409 411 413 414 416	B8	85,00 66,890,89 86,179,56 2,367,71 3,183,84 680,00
Frotal Additions Total Additions Total Additions Debauctions: Gain or signated of assets per financial Dividends not subset under assets per financial Dividends not Schedule 8 Allowiden business investment loss Deferred and prigarde ageneses Scientific research experience claimed in year Reserves from financial statements - balance Contributions to deferred noncere plans Book income of joint venture or pastmership Equily in income from subsidiary or affisiates Other deductions	402 403 404 406 409 411 413 414 416 305 306	B8	85,00 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received Durrent Year Investment Tax Credits received Durrent Year Investment Tax Credits received Deductions Deductions Gain on disposal of assets per financial substrateria Capital cost allowance from Schedule 8 Taxining to Schedule 8 Allowable business investment loss Deferrent and perform developed aprentes Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - bulance at beginning of the writer or partnership Equily in income from subsidiary or affiliates Other adoubtections Their deductions	402 403 404 406 409 411 413 414 416 305 306	B8	66,890,89 66,890,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Foot and Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Desugged and assets per financial statements Dividends not stable under section 63 Capital control and of assets per financial statements Dividends not stable under section 83 Capital conformation of the section 83 Capital conformation 83 Capital 64 Capital 6	402 403 404 406 409 411 413 414 416 305 306	B8	85,000 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received Durrent Year Investment Tax Credits received For Investment Tax Credits recei	402 403 404 406 409 411 413 414 416 305 306	B8	85,000 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Foot and Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Desugged and assets per financial statements Dividends not stable under section 63 Capital control and of assets per financial statements Dividends not stable under section 83 Capital conformation of the section 83 Capital conformation 83 Capital 64 Capital 6	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	66,890,89 66,890,89 86,179,56 2,367,71 3,183,84 680,00
Flori Year Investment Tax Credits received Durrent Year Investment Tax Credits received Flori Additions Deductions: Cain on disposal of assets per financial statements Dividend not taxable under section 83 Coppier cost allowance from Schedule 8 Allowable business investment loss Deferred and prepared expenses Scientific research expenses claimed in year Tax reserves claimed in current year Tax reserves claimed on current year Tax reserv	402 403 404 406 409 411 413 414 416 305 306	B8	85,000 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Trout Additions Total Additions Deductions: Gain on signated of assets per financial Divisional real states and a second signature of a second signatu	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Frour Year Investment Tax Credits received Liver Year Investment Year Year Year Year Year Year Year Year	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,00 66,890,89 86,179,56 2,367,71 3,183,84 680,00
Florial Additions Fotal Additions Debuctions Total Additions Debuctions Capital cost allowance from Schedule 8 Allowable business investment loss Defured and pulgate registeries Scientific restarch experiess colained in year Reserves from financial statementers. Debuctions Debuctions of point venture or partnership Equity in income from subdisday or affisiales Debuctions of joint venture or partnership Equity in income from subdisday or affisiales Debuctions of point venture or partnership Equity in income from subdisday or affisiales Debuctions of point venture or partnership Equity in income from subdisday or affisiales Debuctions of Debuction accounting deducted for accounting debucted for accoun	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	86,179,56 66,890,89 86,179,56 2,367,71 3,183,84 680,00
Total Additions Total Additions Deductions: Gain on signated of assets per financial Divisional real states and a signature of a signatur	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	86,179,56 66,890,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received Durrent Year Investment Tax Credits received Deductions Deductions: Gain on disposal of assets per financial statements San on disposal of assets per financial statements Gain on disposal of assets per financial statements San on disposal of assets per financial statements Gain on disposal of assets per financial statements Gain on disposal of assets per financial statements Allowable under accion 15 Capital card allowance from Schedule B Allowable business investment fors Deferred and pregnde operates Scientific research expenses claimed in year Tax reserves California or card year Reserves from financial statements - bulance as beginning of year Tax reserves California or card year Reserves from francial statements - bulance as beginning of year vertage or partnership Equity in income from subsidiary or affiliates Other deductions Financial vertage accounts Capital Lease Phymness Anno-Isaable imported interest accome on deferral and variance accounts Gainette Geserves A Experiments Derektopheric Speriodes Anno-Isaable imported interest accome on deferral and variance accounts Gainette Card Accident directs and control of the school of the schoo	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,00 66,880,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Footal Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Capital additions Deductions: Capital additions Deductions: Capital control additions of the Control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 86,179,56 1,065,17
Frotal Additions Fortal Additions Deduction: Gain on algosal of assets per financial Browning of a section of a sectio	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 86,179,56 1,065,17
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Footal Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Capital additions Deductions: Capital additions Deductions: Capital control additions of the Control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,0C
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Footal Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Capital additions Deductions: Capital additions Deductions: Capital control additions of the Control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 86,179,56 1,065,17
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Footal Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Capital additions Deductions: Capital additions Deductions: Capital control additions of the Control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 86,179,56 1,065,17
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Footal Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Capital additions Deductions: Capital additions Deductions: Capital control additions of the Control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 86,179,56 1,065,17
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Footal Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Capital additions Deductions: Capital additions Deductions: Capital control additions of the Control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 86,179,56 1,065,17
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received Footal Additions Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Deductions: Capital additions Deductions: Capital additions Deductions: Capital control additions of the Control of	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,00 66,890,89 86,179,56 2,367,71 3,183,84 680,00
Prior Year Investment Tax Credits received University Part Additions Debuctions: Gain or disposal of assets per financial Debuctions: Gain or disposal of assets per financial Debuctions: Capital cost allowance from Schedule 8 Allowation standard under section 83 Capital cost allowance from Schedule 8 Allowation business investment loss Debucted and praying acquisities Scientific research experience sclaimed in year Reserves from financial statementers - balance Debucted and praying acquisities Book income of joint venture or patinership Equily in income from subdisday or affiliates Other deductions Debug of the properties of the patinership Equily in income from subdisday or affiliates Other deductions Interest capitalized for accounting deducted for formation of the patinership Reserves facilities accounts for the patinership Reserves facilities accounts accounts facilities accounts of the patinership Reserves facilities accounts for the patinership Reserves facilities accounts f	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	86,179,56 66,890,89 86,179,56 2,367,71 3,183,84 680,00 1,065,17
Prior Year Investment Tax Credits received Lournet Year Investment Tax Credits received Diversel Year Investment Tax Credits received Forum 1 Additions Deductions: Gain on signost of assets per financial Diversel Additions Deductions: Gain on signost of assets per financial Diversel Additions Deductions: Gain on signost of assets per financial Diversel Additions Spring Investment for Tax Investment for Inv	402 403 404 406 409 411 413 414 416 305 306 396 396 396	B8	85,000 66,880,89 86,179,56 86,179,56 1,065,17
Prior Year Investment Tax Credits received Current Verei Investment Tax Credits received Format Additions Deductions Deductions Deductions Deductions Control of the	602 603 404 406 406 409 411 413 414 416 306 306 306 306 306 306	B8	86,179,56 66,890,89 86,179,56 2,367,71 3,183,84 680,00 1,065,17
Frois Year Investment Tax Credits received Lourent Year Investment Tax Credits received Frois Additions Debuctions: Coain or signated of assets per financial Debuctions: Coain or signated of assets per financial Dividends not subside under section IS Capital cost allowance from Schedule 8 Allowabide business investment loss Debucted and prayed acqueues Scleriffic research experiess claimed in year Reserves from financial statements - balance Contributions to deberred ancreap pairs Book income of joint venture or pathership Equily in income from subsidiary or affiliates Other debuctions Frois and Lease Payments Non-laudoble imputed referest income on deferral and venture accounts Scientiffic Research & Experimental Development Experiment ARO Payments - Deductible for Tax when Paid ITA 19(7,4) Election - Capital Contributions ARO Payments - Deductible for Tax when Paid ITA 19(7,4) Election - Capital Contributions Lease Inducement to cost of Leaseholds Lease Inducement to cost of Leaseholds Lease Inducement to cost of Leaseholds Total Deductions Rel Income for Tax Purposes Total Deductions Net Income for Tax Purposes Taxific dividends received under section 112 or	602 603 404 406 409 411 413 414 416 305 305 306 306 306 306 306 306 306 306 306 306	B13 B13 B13 Calculated	85,00 66,890,89 86,179,56 2,367,71 3,183,84 680,00 1,065,17 1,065,17
Total Additions Deductions: Gain on disposal of assets per financial Selections: Capital cost allowance from Schedule 8 Allowable business investment loss Deferred and pregind expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from financial statements - bulance at belancing of year Reserves from financial statements - bulance at belancing of year Reserves from financial statements - bulance at belancing of year Reserves from financial statements - bulance at belancing of year Reserves from financial statements - bulance at belancing of year Reserves from financial statements - bulance at belancing of year Reserves from financial statements - bulance at belancing of year Reserves from from subsidiary or affisiates Deferred and year weature or partnership Equily in income from subsidiary or affisiates Other deductions Non-tassable important interest income on deferral and variancia accounts ARO Payments - Deductible for Tax when Paid TA 13/1, 41 Section - Capital Contributions Reserved and variancia accounts ARO Payments - Deductible for Tax when Paid TA 13/1, 41 Section - Capital Contributions Reserved and variancia accounts ARO Payments - Deductible for Tax when Paid TA 13/1, 41 Section - Capital Contributions Reserved Revenue of Tax Purposes Deferred Revenue of Tax Purposes Deferred Revenue of Tax Purposes Deferred Additions Next Income for Tax Purposes Deferred Additions Particular deviations received under section 112 or Non-capital located or deviations Reserved Additions Revenue of Tax Purposes Deducted Additions of Previous tax years from Schedule 4	692 693 494 494 496 499 411 413 414 416 305 305 306 306 306 305 306 306 307 307 307 307 307 307 307 307 307 307	B12 B13 B13 Calculated	85,00 66,880,89 86,179,56 2,367,71 3,183,84 690,00 1,065,17 1,065,17
Frois Year Investment Tax Credits received Lourent Year Investment Tax Credits received Frois Additions Deductions: Coain or signated of assets per financial Deductions: Coain or signated of assets per financial Dividends not subside under section IS Capital cost allowance from Schedule 8 Allowabide business investment loss Defined and praying dependes Sclerifii research experiess claimed in year Reserves from financial statements - balance Contributions to deferred anone plans Book income of joint venture or pathership Equily in income from subsidiary or affiliates Other deductions Frois and Lease Representations ARO Payments - Deductible for Tax when Paid ITA 19(7,4) Election - Capital Contributions ARO Payments - Deductible for Tax when Paid ITA 19(7,4) Election - Capital Contributions Lease Inducement or Apply Lease Inducement to cost of Leasendoids ARO Payments - Deductible for Tax when Paid ITA 19(7,4) Election - Capital Contributions Lease Inducement to cost of Leasendoids Lease Inducement to cost of Leasendoids Leasendoids - Leasendoids Leasendoids - Leasendoids Total Deductions Net Income for Tax Purposes Lavaritable deviations Taxibile dividends received under section 112 or Taxibile dividends precived under section 112 or	692 693 494 496 499 411 413 414 416 305 305 305 305 305 305 305 305 305 305	B13 B13 B13 Calculated	85,00 66,890,89 86,179,56 2,367,71 3,183,84 680,00 1,065,17 93,476,29 24,184,38

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Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year	<u>B1</u>	0
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	0
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

 Net Capital Loss Carry Forward Deduction
 Total

 Actual Historical
 H4
 0

 Amount to be used in Bridge Year
 Eds Carry Forward Generated in Bridge Year (if any)
 B1

 Other Adjustments
 Other Adjustments
 Calculated
 0

<u>T4</u>

<u>T4</u>

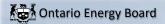
Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 4 Schedule 1 Attachment G UPDATED May 5, 2020 Page 15 of 21



Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

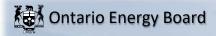
(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus or column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC AIP (column 8 plus column 6 minus column 3 plus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIP acquired during the year (column 4 minus column 10) (ii negative, enter "0")	Relevant factor	(12) UCC adjustment for AllP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(18) UCC at the end of the bridge year (column 9 minus column 17)	P
1	Buildings, Distribution System (acq'd post 1987)	H8	\$ 134,289,026	s -	s -	s .	s -	s .	s -	\$ 134,289,026	s -	s -	0.50	s -	s .	4%			\$ 5.371.561	\$ 128,917,465	85
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	H8	\$ 80,719,151		\$ 887.335	š -	s -	s -	s -			\$ 887.335	0.50		š -	6%			\$ 4,923,009	\$ 76,683,476	
	Distribution System (acg'd pre 1988)	H8	\$ 38,707,996			s -	s -	s -	s -	\$ 38,707,996	s -	s -		S -	s -	6%			\$ 2,322,480	\$ 36,385,516	16
3	Buildings (acq'd pre 1988)	H8	\$ 4,564,141			\$ -	s -	\$ -	\$ -	\$ 4,564,141	\$ -	S -		S -	\$ -	5%			\$ 228,207	\$ 4,335,934	34
	Certain Buildings; Fences	H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -	s -	\$ -	S -	0.50			10%			s -	\$ -	
8	General Office Equipment, Furniture, Fixtures	H8	\$ 12,391,894				\$ -	\$ -	\$ -	\$ 13,893,875		\$ 1,501,981	0.50			20%			\$ 2,928,973	\$ 10,964,902	
	Motor Vehicles, Fleet	H8 H8	\$ 6,390,702	\$ 2,233,064	\$ 2,233,064	\$ -	s -	\$ -	\$ -	\$ 8,623,766	\$ -	\$ 2,233,064	0.50			30%			\$ 2,922,089	\$ 5,701,676	
	Certain Automobiles		s -	\$ -	s -	\$ -	\$ -	\$ -	\$ -			S -	0.50		\$ -	30%			S -	\$ -	
	Computer Application Software (Non-Systems)	H8	s -	\$ 2,044,296			\$ -	\$ -				\$ 2,044,296	0.00			100%			\$ 2,044,296	\$ -	
	Lease #1	H8	\$ -	\$ -	s -		s -	\$ -				\$ -	0.00			NA				\$ -	_
13 2	Lease # 2	H8	\$ -		s -	\$ -	s -	\$ -	\$ -	-	-	\$ -	0.00			NA				\$ -	_
13,	Lease #3	H8	\$ -		s -	\$ -	s -	\$ -	\$ -	s -		\$ -	0.00			NA				\$ -	
	Lease # 4	<u>H8</u>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-		\$ -	0.00			NA				\$ -	
14	Limited Period Patents, Franchises, Concessions or Licences	H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -	s -	\$ -	s -	0.00			NA				\$ -	
	Eligible Capital Property (acq'd pre Jan 1, 2017)	H8	\$ 8,064,739			\$ -	\$ -	\$ -	\$ -			\$ -		s -		7%			\$ 564,532	\$ 7,500,207	
	Eligible Capital Property (acq'd post Jan 1, 2017)	H8	\$ 58,041,247 \$ 1,504,401		\$ 105,683	\$ -	S -	\$ -	\$ -	\$ 58,146,930 \$ 1,504,401		\$ 105,683	0.50			5%			\$ 2,909,989 \$ 120,352	\$ 55,236,941 \$ 1,384,049	
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	H8	\$ 1,504,401 \$ 3,724,786			\$ -	\$ -	\$.	\$ -	\$ 1,504,401 \$ 3,742,064		S 17 278	0.50			8% 12%			\$ 120,352 \$ 450.084	\$ 1,384,045 \$ 3,291,975	
	Fibre Optic Cable Certain Clean Energy/Energy-Efficient Generation Equipment	H8 H8	\$ 3,724,786	\$ 17,278	\$ 17,278	\$ -	S -	\$.	\$ -	\$ 3,742,064	s -	\$ 17,278	2.33			12% 30%			\$ 450,084	\$ 3,291,975	79
	Certain Clean Energy/Energy-Efficient Generation Equipment Certain Clean Energy/Energy-Efficient Generation Equipment	HB	\$ 50.265		3 -		3 -	3 .	<u> </u>	\$ 50.265		3 -	1.00			50%			S 25.132	\$ 25130	
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	H8	\$ 50,265		3 -	s .	s -	s -	\$ -			s -		s -		45%			\$ 25,132 \$ 98	\$ 25,132	
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	H8	\$ 219	e						S 215			0.50			30%			e 96	g 120	20
	Distribution System (acq'd post Feb 22/05)	H8	\$ 645,877,023	\$ 69 387 174	S 69 387 174	\$.	9 .	s .	s -	9		S 69 387 174	0.50			8%			\$ 59,996,623	\$ 655 267 574	
	General Purpose Computer Hardware & Software (acci'd post Mar 18/07)	H8	\$ 753,786				· .	9 .	\$.	S 1.914.460		\$ 1,160,674	0.50			55%			\$ 1.372.138	\$ 542.321	
95		H8	\$ 703,700	\$ 1,100,074	S -	\$.	s -	\$.	\$ -			\$ 1,100,074	0.00			0%			\$ 1,372,130	\$ -	21
		H8	s -	s -	s -	s -	s -	s -	s -	-	*	s -	0.00	s -	*					s -	=
		H8	s -			s -	s -	s -				S -		s -						s -	
		H8	s -		s -	s -	s -	s -	s -			s -		s -						s -	
		H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -	s -	\$ -	s -		S -	\$ -					\$ -	
		H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -	s -	\$ -	s -		s -	\$ -					\$ -	
		H8	\$ -							S -	\$ -	S -		S -	\$ -					\$ -	
		H8	\$ -							s -	\$ -	s -		s -	\$ -					\$ -	
		H8	\$ -							S -	\$ -			S -						\$ -	7
	TOTALS		\$ 995,079,374	\$ 77,337,485	\$ 77,337,485	\$ -	s -	\$ -	\$ -	\$ 1,072,416,859	\$ -	\$ 77,337,485		\$ 37,646,595	\$ -		\$ -	\$ -	\$ 86,179,564	B1 \$ 986,237,295	J5



Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

						Bridge Year					
Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Additions	Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	H13	1 0		0				0	T13		1
Tax Reserves Not Deducted for Accounting Purposes	1113	0		0				0	113		
Reserve for doubtful accounts ss. 20(1)(I)	H13	2,367,712		2,367,712				2,367,712	T13	()
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	_	()
Reserve for unpaid amounts ss. 20(1)(n)	H13	0		0				0	_	()
Debt & share issue expenses ss. 20(1)(e)	H13	0		0				0	T13	()
Other tax reserves	H13	0		0				0	T13	()
		0		0				0		()
		0		0				0		0)
Total		2,367,712	0	2,367,712	<u>B1</u>	0	0	2,367,712	<u>B1</u>	C	,
Figure in the terms of the term											
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific) General Reserve for Bad Debts	H13	3.183.844		3,183,844				0 3,183,844	110	(
	H13	3,183,844		3,183,844						(
Accrued Employee Future Benefits: - Medical and Life Insurance	H13 H13	0		0				0	T13	· ·	\
- Short & Long-term Disability	H13	0		0	-			0		(1
- Short & Long-term Disability - Accumulated Sick Leave	H13	0		0	-			0	_	(1
- Accumulated Sick Leave - Termination Cost	H13	0		0	-			V	T13	(1
- Other Post-Employment Benefits	H13	0		0	-				T13	(1
Provision for Environmental Costs	<u>піз</u> Н13	0		0					T13		
Restructuring Costs	<u>піз</u> Н13	0		0				0			
Accrued Contingent Litigation Costs	H13	0		0				0	T13		
Accrued Self-Insurance Costs	H13	0		0				0	T13		
Other Contingent Liabilities	H13	0		0				0	T13)
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	H13	0		0				0	T13	0)
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>H13</u>	0		0				0	<u>T13</u>	C)
Other	H13	0		0				0	T13	()
		0		0				0		(j
		0		0				0		(1
Total		3,183,844	0	3,183,844	<u>B1</u>	0	0	3,183,844	<u>B1</u>	0)



PILs Tax Provision - Test Year

Wires Only	1
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Regulatory Taxable Income				<u>T1</u>	\$ 32,307,659 A
	Tax Rate Small Business Rate	Taxes Pavable	Effective Tax Rate		

	Tax Itale	Siliali Dusilless Nate	ı a	Nes i ayable	LITECTIVE TAX INDIE	
		(If Applicable)				
Ontario (Max 11.5%)	11.5%	11.5%	\$	3,715,381	11.5%	В
Federal (Max 15%)	15.0%	15.0%	\$	4,846,149	15.0%	С

Combined effective tax rate (Max 26.5%)

26.50% **D = B + C**

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits
Total Tax Credits

Corporate PILs/Income Tax Provision for Test Year

Corporate PILs/Income Tax Provision Gross Up 1

\$ 85,000 F G G H = F + G

\$ 8,476,530 I = E - H <u>S. Su</u>

8,561,530 E = A * D

J = 1-D \$ 3,056,164 K = I/J-I

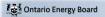
73.50%

\$ 11,532,693 L = K + I <u>S. Su</u>

Income Tax (grossed-up)

Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.



Additions: National Journal of Proceedings 103 103 105	Taxable Income - Test Year		Working Paper Reference	Test Year Taxable Income
Additional				52,353,08
Amortzation of languighe assets 104 60,928.5 60,9		T2 S1 line #		
### AMONGSZION OF THE PROPOSES ### AMONGSZION OF THE PROPOSES				5,00
2-A ADURITION CONTROL OUT AT PAGE Recognitur of capital cost and subvance from Schedule 107 TE Recognitur of capital capital Recogniture of capital Recogniture	2-4 ADJUSTED ACCOUNTING DATA P489			60,928,90
Bottom Processing Process	2-4 ADJUSTED ACCOUNTING DATA P490			
Treat Treatment Treatmen	8	107	<u>T8</u>	
Loss on disposal of assets Transite Capital Canne Transite Capital C	from Schedule 10			
112	Loss in equity of subsidiaries and affiliates Loss on disposal of assets			1.000.00
Publication prompted expenses	Charitable donations	112		1,000,00
Scientific research operations deducted on temperature and securities (1997) Scientific research operatures (1997) Scientific research operatures (1997) Scientific research (1997)	Political Donations	114		
Transcript International Int	Deferred and prepaid expenses Scientific research expenditures deducted on			
Non-declucible miss and entertainment expenses 121	financial statements			
Non-decidable international prises 122 123 124 125 123 124 125 1				
Non-declarible tile insurance premiums 123	Non-deductible meals and entertainment expense	121		85,00
Non-deductible company personnel plane Tars reserves beginning of year Reserver from Invarious Statements bearing at 125 Tas reserves beginning of year Tas of year year Tas				
Reserves from financial statements'-balance at evid of year and of year and of year and of year and ye	Non-deductible company pension plans	124		
and of year Sociotics of controllation and renovation of 127 Book loss on joint ventures or partnerships (205 Copie) and the property of the	Tax reserves beginning of year Reserves from financial statements- balance at			2,367,71
buildings Book isso on joint ventures or partnerships Copical stress expensed Development expenses chimmed in current year Development expenses chimmed in current year Development expenses chimmed in current year Primatering New Bediesded in Books Colin on settlement of Oxfor	end of year		113	3,183,84
Capital lame expensed	buildings			
Debt issue expenses Development expenses claimed in current year Financing free desturcted in books Gan on settlement of debt Non-deductible interest Non-deductible interest 1220 Non-deductible interest 1221 Non-deductible interest 1222 Non-deductible interest 1223 Non-deductible interest 1224 Non-deductible interest 1225 Non-deductible interest 1226 Non-deductible interest 1227 Non-deductible interest 1228 Non-deductible interest 1229 Non-deductible interest 1229 Non-deductible interest 1229 Non-deductible interest 1229 Non-deductible penalties 1226 Non-deductible penalties	Book loss on joint ventures or partnerships Capital items expensed			
Financiary less deflused in books Gain on assettement of size in the control of t	Debt issue expense			
Cain on settlement of debt. Non-deductible viersest Non-deductible penalties Non-deduct				
Non-deductible interest Non-deductible perpetury Non-deducti			1	
Non-describle legal and accounting fees Recapture of SRAD expenditures 233 Shart issue expense 234 Shart issue expense 235 Shart issue expense 236 Write down of capital property 236 Write down of capital property 237 Shart issue expense 238 Write down of capital property 239 Shart issue expense 239 Shart issue expens	Non-deductible advertising	226		
Share issue expense With down of capital property Amounts received in expect of qualifying Amounts received in expect of qualifying Amounts received in expect of qualifying 1237 1236 1237 1238 1238 1238 1238 1237 1238 1238 1237 1238 1237 1238 1238 1238 1237 1238 1238 1238 1238 1238 1238 1238 1238	Non-deductible legal and accounting fees	228		
With dome of against property (analysing environment transition to respect of qualifying environment trust per paragraphs (12/1)(1) and control transition of the property (12/1)(1) and control transition of the property (12/1)(1) and control transition (12/1) and control tran	Recapture of SR&ED expenditures Share issue expense			
environment rust per paragnaphs 12(1)(£-1) and 12(1)(£-2) 12(1)(£-	Write down of capital property			
Total Additions Foreign Experience on Capital Leases Resized Horone from Deterred Credit Accounts Permission Non-deductable penalties 295 295 295 ARD Accretion experies 295 ARD Accretion experies 295 ARD Accretion experies 296 297 ARD Accretion experies 297 ARD Accretion experies 297 ARD Accretion experies 298 298 298 299 ARD Accretion experies 298 298 299 ARD Accretion experies 298 298 299 ARD Accretion experies 299 299 290 290 290 290 290 29	environment trust per paragraphs 12(1)(z.1) and	237		
Penalizes Penali	Other Additions	295		
Non-deductable penalties 295 295		200		
ARCO Accretion expense ARCO Accretion expense Capital Controllutions Received (TA 12(1)(s)) Deterror Revenue (TA 12(1)(s)) Total Additions 68.455. Total Additions 69.455. Gain on signosal of assets per financial statements Capital cost signosarce from Schedule 8 401 Total Additions 69.455. Gain on signosal of assets per financial statements Capital cost signosarce from Schedule 8 403 Ta 80,027.5 Terminal loss from Schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 403 Ta 80,027.5 Ta revenue of of year schedule 8 404 Ta revenue of of year schedule 8 405 Ta schedule 8 406 Ta 31,31,31,31,31,31,31,31,31,31,31,31,31,3				780,000
ARCI Accretion expense Capital Control-driven Received (TTA 12(1)(4)) Deterrol Revenue (TTA 12(1)(4)) Revenue (Norrueoucable penalities	295		
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Capital Contributions Received (ITA 12(1)(s)) Destrered Received (ITA 12(1)(s)) Current Year Investment Tax Credits received 85.6 85.6 Total Additions 68.435,4 Received Receive		295		
Lease Inducement Received (ITA (17(1))) Deferred Review (ITA (17(1))) Prior Year Investment Tax Credits received Center You's Investment Tax Credits received 85,6 Total Additions Reductions Reserves from financial statements Reserves from financial sta	Capital Contributions Received (ITA 12(1)(x))			
Prior Vast Investment Tax Credits received Current Year Investment Tax Credits received 85.6 Section 1	Lease Inducements Received (ITA 12(1)(x))			
Total Additions Deductions Gain on disposal of assets per financial statements (401 Dividends not taxable under section 83 Gain on disposal of assets per financial statements (401 Dividends not taxable under section 83 (402 Title 80,027,5 Title 8	Prior Year Investment Tax Credits received			
Deductions:	Current Year Investment Tax Credits received			85,000
Deductions:				
Gain on disposal of assets per financial statements 4011 Dividendin ont baselie under section 83 402 13 80,027,5				68,435,463
Dividend not treatly under section 13		401		
Capital cost allowance from Schedule 8				
Allowable business investment loss Deferred and praging depenses 409 Scientific research operases claimed in year 411 T13 2.367.3 Reserves from fivancial statements'- belance at 414 T13 3.183.4 Contributions to deferred income plans 416 Book income of joint venture or partnership Book income of joint venture or joint partnership Book income of joint of lesse payments Book income of joint of	Capital cost allowance from Schedule 8			80,027,985
Scientific research operates claimed in year Att 13 2,367,7 Reserves from financial statements - bilance at 133 113 2,367,7 Reserves from financial statements - bilance at 144 113 3,183,8 Department of 144 113 3,183	Allowable business investment loss		18	
Tax reserves end of year Reserves from from call statements - bilance at 413	Deferred and prepaid expenses			
beginning of year Contributions to deferred income plans Contributions to deferred income plans Contributions to deferred income plans Equity in income from subsidiary or affiliates Differed feducations Interest equilibrium or a contribution or a contribution of the	Tax reserves end of year		<u>T13</u>	2,367,712
Contribution to deferred income glane	Reserves from financial statements - balance at	414	T13	3,183,844
Egutin income from subandary or diffiliates Other eductions Interest aphalized for accounting deducted for tax Interest aphalized for accounting apparent and accounting aphalized for accounting apparent accounting accounting apparent accounting apparent accounting apparent accounting accounting apparent accounting	Contributions to deferred income plans			680,000
Other deductions Similar State Control of the Cont				
Capital Leaker Psymmets Annotable import directal roome on deferral and variance accounts Sosmitic Research & Experimental Development 395 Sosmitic Research & Experimental Sosmitic Research 395 Sosmitic Research & Experimental Development 197 Sosmitic Research & Experimental D	Other deductions			
Non-tassob imputed interest income on deferral and variance accounts and variance accounts 395 3				
and various accounts Societies Research & Experimental Development 395 2,221.5 Generies 395 2,221.5 395 395 395 395 395 395 ARO Payments - Deductible for Tax when Paid ITA 137.4 Blection - Capital Contributions Received ITA 137.4 Blection - Capital	Non-taxable imputed interest income on deferral			
Expenses 396 396 396 396 396 396 396 396 396 396				
ARO Payments - Deductable for Tax when Paid ARO Payments - Deductable for Tax when Paid ITA 137/4) Election - Capital Contributions Received Rece	Expenses			2,221,35
ARO Payments - Deductible for Tax when Paid ITA 137.4 Election - Capital Contributions Received Contributions Received Contributions Principle Deformed Revenues - ITA 201(1)(e) researce Principle portion of lesse payments Lesse Inducement Book Amontization redit to Income Income Received Contribution - Received Contribut				
ARO Payments - Deductible for Tax when Paid ITR 15(7.4) Election - Capital Contributions Received Rece		395		
TRA 137.4 Election - Capital Contributions Received ITA 137.4 Election - Apply Lase Inducement to Cost of Leasthfolds Deferred Revenue - TRA 20(1)(in) reserve Deferred Revenue - TRA 20(1)(in) reserve Lease Inducement Book Americation credit to Income. Financing Sees for tax ITA 20(1)(e) and (e.1) Total Deductions Calculated Total Deductions Calculated 88.480.8 NET INCOME FOR TAX PURPOSES Calculated 22,307.6		395		
Received Tria 137(-4) Encion - Apply Lease Inducement to cost of Leastholds Deferred Revenue - ITA 20(1)(n) reserve Principal portion of Lease polyments Encioned - ITA 20(1)(n) reserve Principal portion of Lease polyments Encioned - ITA 20(1)(n) and (n 1) Total Deductions Calculated - Reserved - ITA 20(1)(n) and (n 1) Total Deductions Calculated - Reserved -				
TO LET (24) Election - Apply Lease Inducement to consider the consideration of the another Defended Revenue - TA-20 (1)(n) results returned to the consideration of the considera	ITA 13(7.4) Election - Capital Contributions Received			
Deferred Revenue - ITA 20(1)(n) reserve	ITA 13(7.4) Election - Apply Lease Inducement to			
Principal portion of lease pymmers Lesse Inducement Book Ameritation redit to accore Presecting less for tax (TA 20(1)(e) and (e, 1) Total Deductions Calculated 88,489,8 NET INCOME FOR TAX PURPOSES Calculated 32,207,6	Deferred Revenue - ITA 20(1)(m) reserve			
Financing fees for tax ITA 20(1)(e) and (e.1) Total Deductions calculated 88,480,8 NET INCOME FOR TAX PURPOSES calculated 32,307,6	Principal portion of lease payments		 	
Total Deductions calculated 88,480,6 RET INCOME FOR TAX PURPOSES calculated 32,307,6	income		<u> </u>	
NET INCOME FOR TAX PURPOSES calculated 32,307,6	rinancing tees for tax ITA 20(1)(e) and (e.1)		 	
NET INCOME FOR TAX PURPOSES calculated 32,307,6				
NET INCOME FOR TAX PURPOSES calculated 32,307,6				
NET INCOME FOR TAX PURPOSES calculated 32,307,6			L	
NET INCOME FOR TAX PURPOSES calculated 32,307,6				
NET INCOME FOR TAX PURPOSES calculated 32,307,6	Total Deductions		calculated	88.480.20
			calculated	
	NET INCOME FOR TAX PURPOSES		calculated	32,307,659
Charitable donations 311	Charitable donations	311		
Taxable dividends received under section 112 or 113 320		320		
Non-capital losses of previous tax years from 331 T4				
Net capital losses of previous tax years from			<u>T4</u>	
Scriedule 4	Net capital losses of previous tax years from	331		
Schedule 4 335	Net capital losses of previous tax years from Schedule 4 Limited partnership losses of previous tax years from	331	<u>T4</u> <u>T4</u>	(



Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

	Working Paper	Total	Non- Distribution	Utility Balance
Non-Capital Loss Carry Forward Deduction	Reference		Portion	
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years	<u>T1</u>	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	<u>T1</u>	0		0
Other Adjustments			_	0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non- Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	<u>T1</u>	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

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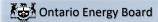


Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

o cite da																					
(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition		(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 7 plus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	th (coli	(18) C at the end of he test year slumn 9 minus column 17)
- 1	Buildings, Distribution System (acq'd post 1987)	B8	\$ 128,917,465							\$ 128,917,465	s -	\$.	0.50	\$.	\$ -	4%			\$ 5,156,699	\$	123,760,767
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8	\$ 76,683,476	1,283,620	1,283,620					\$ 77,967,096	s -	\$ 1,283,620	0.50	\$ 641,810	\$ -	6%			\$ 4,716,534	\$	73,250,562
2	Distribution System (acq'd pre 1988)	B8	\$ 36,385,516							\$ 36,385,516	s -	\$.		\$.	\$ -	6%			\$ 2,183,131	\$	34,202,385
3	Buildings (acq'd pre 1988)	88	\$ 4,335,934							\$ 4,335,934	s -	\$.		\$.	s -	5%			\$ 216,797	\$	4,119,137
6	Certain Buildings; Fences	88	s -							\$.	s -	\$.	0.50		s -	10%			s -	\$	
8	General Office Equipment, Furniture, Fixtures	B8	\$ 10,964,902	1,279,222						\$ 12,244,124	s -	\$ 1,279,222	0.50		\$ -	20%			\$ 2,576,747	\$	9,667,377
10	Motor Vehicles, Fleet	B8	\$ 5,701,676	1,844,412	1,844,412					\$ 7,546,088	s -	\$ 1,844,412	0.50		\$ -	30%			\$ 2,540,488	\$	5,005,600
10.1	Certain Automobiles	B8	s -							\$ -	s -	\$.	0.50		s -	30%			s -	\$	
12	Computer Application Software (Non-Systems)	B8	s -	69,232	69,232					\$ 69,232	s -	\$ 69,232	0.00		\$ -	100%			\$ 69,232	\$	
13,	Lease #1	<u>B8</u>	s -							\$ -	\$ -	\$.	0.00		s -	NA				\$	
13 2	Lease # 2	<u>B8</u>	s -							\$ -	\$ -	\$.	0.00		s -	NA				\$	
13 3	Lease #3	<u>B8</u>	\$ -							\$ -	\$ -	\$.	0.00			NA NA				\$	
13 4	Lease # 4	<u>B8</u>	\$ -							\$ -	\$ -	\$.	0.00			NA				\$	
14	Limited Period Patents, Franchises, Concessions or Licences	B8	s -							\$ -	s -	\$.	0.00	s .	s -	NA				\$	
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	B8	\$ 7,500,207							\$ 7,500,207	s -	\$.		s .	s -	7%			\$ 525,015	\$	6,975,193
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	B8	\$ 55,236,941	2,135,698	2,135,698					\$ 57,372,639	s -	\$ 2,135,698	0.50		s -	5%			\$ 2,922,024	\$	54,450,615
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	\$ 1,384,049							\$ 1,384,049	s -	\$.	0.50			8%			\$ 110,724	\$	1,273,325
42	Fibre Optic Cable	<u>B8</u>	\$ 3,291,979	17,278	17,278					\$ 3,309,257	\$ -	\$ 17,278				12%			\$ 398,148	\$	2,911,110
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ -							\$ -	\$ -	\$.	2.33			30%			\$ -	\$	
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	88	\$ 25,132							\$ 25,132		\$.	1.00		s -	50%			\$ 12,566	\$_	12,566
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	88	\$ 120							\$ 120		\$.		\$.	s -	45%			\$ 54	\$_	66
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	B8	s -							\$ -	s -	\$ -	0.50		\$ -	30%			\$ -	\$	
47	Distribution System (acq'd post Feb 22/05)	B8	\$ 655,267,574	73,617,583						\$ 728,885,157	s -	\$ 73,617,583	0.50			8%			\$ 61,255,516	\$	667,629,641
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	B8	\$ 542,321	887,744	887,744					\$ 1,430,065	s -		0.50			55%			\$ 1,030,666	\$	399,400
95	CWIP	B8	s -							\$.	s -	\$ -	0.00			0%			s -	\$	
	2024 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal CCA)	B8	s -							s -	s -	\$.		\$.	\$ -				-\$ 3,686,355	\$	3,686,355
		B8	s -							\$ -	s -	\$ -		\$.	\$ -					\$	
		B8 B8	s -							\$.	s -	\$.		\$.	\$ -					- \$	
			s -							\$.	s -	\$.		\$.	\$ -					- \$	
		B8 B8	5 -							\$.	s -	\$.		\$.	\$ -					- \$	
			s -							\$.	s -	\$.		\$.	\$.					- \$	
		B8 B8	\$.							\$.	\$ -	\$ -		\$.	\$.					- \$	
		88	5 -							\$.	s -	\$ -		\$.	\$ -					\$	
l	TOTALS		\$ 986,237,295	\$ 81,134,789	\$ 81,134,789	\$ -	\$ -	\$ -	\$ -	\$ 1,067,372,084	\$ -	\$ 81,134,789	1	\$ 40,532,779	\$ -	1	\$ -	\$.	\$ 80,027,985	<u>I1</u> \$	987,344,099

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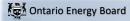


Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Offilinally of Reserves						Test Year A	djustments	1			
Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Additions	Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	<u>B13</u>	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(I)	<u>B13</u>	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	<u>B13</u>	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	<u>B13</u>	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	<u>B13</u>	0		0				0		0	
Other tax reserves	<u>B13</u>	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		2,367,712	0	2,367,712	<u>T1</u>	0	0	2,367,712	<u>T1</u>	0	0
Financial Statement Reserves (not deductible for Tax Purposes)	B.40										
General Reserve for Inventory Obsolescence (non-specific)	<u>B13</u>	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	<u>B13</u>	0		0				0		0	
- Medical and Life Insurance	<u>B13</u>	0		0				0		0	
-Short & Long-term Disability	<u>B13</u>	0		0				0		0	
-Accmulated Sick Leave	<u>B13</u>	0		0				0		0	
- Termination Cost	<u>B13</u>	0		0				0		0	
- Other Post-Employment Benefits	<u>B13</u>	0		0				0		0	
Provision for Environmental Costs	<u>B13</u>	0		0				0		0	
Restructuring Costs	<u>B13</u>	0		0				0		0	
Accrued Contingent Litigation Costs	<u>B13</u>	0		0				0		0	
Accrued Self-Insurance Costs	<u>B13</u>	0		0				0		0	
Other Contingent Liabilities	<u>B13</u>	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>B13</u>	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>B13</u>	0		0				0		0	
Other	<u>B13</u>	0		0				0		0	
		0		0				0		0	
	_	0		0				0		0	
Total		3,183,844	0	3,183,844	<u>T1</u>	0	0	3,183,844	<u>T1</u>	0	0



Utility Name Hydro Ottawa Limited

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499,7472

Email Address RegulatoryAffairs@hydroottawa.com

Date ORIGINAL

Last COS Re-based Year 2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your rate application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assigning you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 4
Schedule 1
Attachment H
UPDATED
May 5, 2020
Page 1 of 21

Instructions

Purnos

Version 1.10

The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab To and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology

To calculate the PILs for the Test Year:

- input the balances from the income tax return of the Historical Year in tabs H1 to H13.
 input the balances for the Bridge Year and the Test Year.
 Inputs should include:
- non-deductible expenses (Schedule 1 B1 and T1)
- loss carryforward (Schedule 4 B4 and T4)
- capital cost allowance (Schedule 8 B8 and T8)
- non-deductible reserves (Schedule 13 B13 and T13)
- 3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes

Tabs H0 to H13 relate to the Historical Year. Tabs B0 to B13 relate to the Bridge Year. Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

UPDATED May 5, 2020



Income Tax/PILs Workform for 2020 Filers Page 2 of 21

1. Info

S. Summary

A. Data Input Sheet

B. Tax Rates & Exemptions

Historical Year H0 - PILs, Tax Provision Historical Year

H1 - Adj. Taxable Income Historical Year

H4 - Schedule 4 Loss Carry Forward Historical Year

H8 - Schedule 8 Historical

H13 - Schedule 13 Tax Reserves Historical

Bridge Year <u>B0 - PILs,Tax Provision Bridge Year</u>

B1 - Adj. Taxable Income Bridge Year

B4 - Schedule 4 Loss Carry Forward Bridge Year

B8 - Schedule 8 CCA Bridge Year

B13 - Schedule 13 Tax Reserves Bridge Year

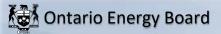
Test Year To PILs, Tax Provision Test Year

T1 Taxable Income Test Year

T4 Schedule 4 Loss Carry Forward Test Year

T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

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Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference	
Adjustments required to arrive at taxable income	as below	-32,889,661
Test Year - Payments in Lieu of Taxes (PILs)	<u>T0</u>	5,578,536
Test Year - Grossed-up PILs	<u>T0</u>	7,589,845
Effective Federal Tax Rate	<u>T0</u>	15.0%
Effective Ontario Tax Rate	<u>T0</u>	11.5%
Calculation of Adjustments required to arrive at Taxable Income		
Regulatory Income (before income taxes)	<u>T1</u>	54,261,496
Taxable Income	<u>T1</u>	21,371,835
Difference	calculated	-32,889,661 as above

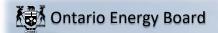
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Income Tax/PILs Workform for 2020 Filers

Integrity Checks

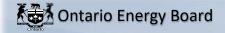
The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	nem	Utility Confirmation (Y/N)	Notes
1	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year		
	UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
3			
	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed	V	
	in the application	•	
	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
	CCA is maximized even if there are tax loss carry-forwards	Y	
	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A		
	analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario	Y	
8	reports, and actuarial valuations.		
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	



			Test Year	Bridge Year
Rate Base		s	\$ 1,433,971,888	\$ 1,390,889,704
Return on Ratebase				
Deemed ShortTerm Debt %	4.00%	Т	\$ 57,358,876	W = S * T
Deemed Long Term Debt %	56.00%	U	\$ 803,024,257	X = S * U
Deemed Equity %	40.00%	V	\$ 573,588,755	Y = S * V
Short Term Interest Rate	2.75%	Z	\$ 1,577,369	AC = W * Z
Long Term Interest	3.69%	AA	\$ 29,631,595	AD = X * AA
Return on Equity (Regulatory Income)	9.46%	AB	\$ 54,261,496	AE = Y * AB T1
Return on Rate Base			\$ 85,470,460	AF = AC + AD + AE

Q	uestions that must be answered	Historical Year	Bridge Year	Test Year
1.	Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2.	Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3.	Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4.	Does the applicant have any Capital Leases?	No	No	No
5.	Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6.	Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7.	Did the applicant pay dividends? If Yes, please describe the tax treatment in the manager's summary.	Yes	Yes	Yes
8.	Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

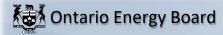


Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax General Corporate Rate Federal Tax Abatement Adjusted Federal Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction Federal Income Tax	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax Combined Federal and Ontario	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business Federal Small Business Limit Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

<u>Notes</u>

- 1. The Ontario Energy Board's proxy for taxable capital is rate base.
- 2. Regarding the small business deduction, if applicable,
 - a. If taxable capital exceeds \$15 million, the small business rate will not be applicable.
 - b. If taxable capital is below \$10 million, the small business rate would be applicable.
 - c. If taxable capital is between \$10 million and \$15 million, the appropriate small business rate will be calculated.

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 4
Schedule 1
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Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

Regulatory Taxable Income Combined Tax Rate and PILs

Ontario Tax Rate (Maximum 11.5%) Federal tax rate (Maximum 15%) Combined tax rate (Maximum 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits
Total Tax Credits

Corporate PILs/Income Tax Provision for Historical Year

Wires Only

\$	24,184,384	Α

H1

В

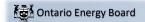
С

11.50%

15.00%

\$	6,408,862	E = A * D
\$	85,000	F
\$	-	G
\$	85,000	H = F + G

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Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal	Non-Distribution	Historic
Income before PILs/Taxes	(A + 101 + 102)	Entity 50,779,786	Eliminations	Wires Only 50,779,786
Additions:				
Interest and penalties on taxes Amortization of tangible assets	103 104	5,000 59,374,339		5,000 59,374,339
Amortization of intangible assets	106 107	0		C
Recapture of capital cost allowance from Schedule 8 Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	107	0		0
Loss in equity of subsidiaries and affiliates	110 111	1,000,000		1,000,000
Loss on disposal of assets Charitable donations and gifts from Schedule 2	112	1,000,000		1,000,000
Taxable capital gains from Schedule 6 Political contributions	113 114	0		0
Deferred and prepaid expenses	116	0		0
Scientific research expenditures deducted on financial statements	118	0		C
Capitalized interest Non-deductible club dues and fees	119 120	0		C
Non-deductible meals and entertainment expense	121 122	85,000 0		85,000
Non-deductible automobile expenses Non-deductible life insurance premiums	123	0		C
Non-deductible company pension plans	124 125	2,367,712		2.367.712
Tax reserves deducted in prior year Reserves from financial statements – balance at the end of the year	126	3,183,844		3,183,844
Soft costs on construction and renovation of buildings Capital items expensed	127 206	0		C
Debt issue expense	208	0		C
Development expenses claimed in current year	212 216	0		C
Financing fees deducted in books Gain on settlement of debt	220	0		0
Non-deductible advertising Non-deductible interest	226 227	0		C
Non-deductible interest Non-deductible legal and accounting fees	228	0		0
Recapture of SR&ED expenditures	231 235	0		C
Share issue expense Write down of capital property	236	0		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		C
Other additions	<u> </u>			l
Interest Expensed on Capital Leases Realized Income from Deferred Credit Accounts	295 295	0		C
Pensions	295	780,000		780,000
Non-deductible penalties	295 295	0		C
	295	0		C
ARO Accretion expense Capital Contributions Received (ITA 12(1)(x))		0		C
Lease Inducements Received (ITA 12(1)(x))		0		C
Deferred Revenue (ITA 12(1)(a)) Prior Year Investment Tax Credits received		0		C
Current Year Investment Tax Credits received		85,000		85,000
				C
				C
				C
				C
				0
				C
Total Additions		66,880,895	0	66,880,895
Deductions:				
Gain on disposal of assets per financial statements Non-taxable dividends under section 83	401 402	0		C
Capital cost allowance from Schedule 8	403	86,179,564		86,179,564
Terminal loss from Schedule 8	404 406	0		0
Allowable business investment loss Deferred and prepaid expenses	409	0		0
Scientific research expenses claimed in year	411 413	0 267 712		2,367,712
Tax reserves claimed in current year Reserves from financial statements - balance at beginning of year	414	2,367,712 3,183,844		3,183,844
Contributions to deferred income plans	416 305	680,000 0		680,000
Book income of joint venture or partnership Equity in income from subsidiary or affiliates	306	0		0
Other deductions Interest capitalized for accounting deducted for tax	395	0		Ι (
Capital Lease Payments	395	0		C
Non-taxable imputed interest income on deferral and variance accounts Scientific Research & Experimental Development Expenses	395 395	1,065,178		1,065,178
	395			C
ARO Payments - Deductible for Tax when Paid ITA 13(7.4) Election - Capital Contributions Received		0		0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds		0		C
Deferred Revenue - ITA 20(1)(m) reserve Principal portion of lease payments		0		0
Lease Inducement Book Amortization credit to income		0		C
Financing fees for tax ITA 20(1)(e) and (e.1)		0		C
				C
				0
				0
				C
				C
Total Deductions		93,476,298	C	93,476,298
Net Income for Tax Purposes		24,184,384	0	24,184,384
Charitable donations from Schedule 2 Taxable dividends received under section 112 or 113	311 320	0		(
Non-capital losses of previous tax years from Schedule 4	320	0		(
Net capital losses of previous tax years from Schedule 4	332	0		(
Limited partnership losses of previous tax years from Schedule 4	335	0		C
TAXABLE INCOME		24,184,384	0	24,184,384

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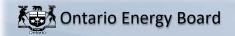


Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

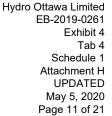
Corporation Loss Continuity and Application

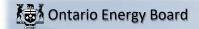
Non-Capital Loss Carry Forward Deduction	Total	Non- Distribution Portion	Utility Balance	
Actual Historical			0	<u>B4</u>
		Non-	III D	
	l Total	Distribution	Utility Balance	
Net Capital Loss Carry Forward Deduction		Portion		



Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated	Historical Year
1	Buildings, Distribution System (acq'd post 1987)	\$ 128,917,465		\$	128,917,465
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	\$ 76,683,476		\$	76,683,476
2	Distribution System (acq'd pre 1988)	\$ 36,385,516		\$	36,385,516
3	Buildings (acq'd pre 1988)	\$ 4,335,934		\$	4,335,934
6	Certain Buildings; Fences	\$ -		\$	-
8	General Office Equipment, Furniture, Fixtures	\$ 10,964,902		\$	10,964,902
10	Motor Vehicles, Fleet	\$ 5,701,676		\$	5,701,676
10.1	Certain Automobiles	\$ -		\$	-
12	Computer Application Software (Non-Systems)	\$ -		\$	-
13 ₁	Lease # 1	\$ -		\$	-
13 ₂	Lease # 2	\$ -		\$	-
13 ₃	Lease # 3	\$ -		\$	-
13 4	Lease # 4	\$ -		\$	-
14	Limited Period Patents, Franchises, Concessions or Licences	\$ -		\$	-
14.1	Eligible Capital Property (acq'd pre 2017)	\$ 7,500,207		\$	7,500,207
14.1	Eligible Capital Property (acq'd post 2016)	\$ 55,236,941		\$	55,236,941
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	\$ 1,384,049		\$	1,384,049
42	Fibre Optic Cable	\$ 3,291,979		\$	3,291,979
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ -		\$	-
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	\$ 25,132		\$	25,132
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	\$ 120		\$	120
46	Data Network Infrastructure Equipment (acg'd post Mar 22/04)	\$ -		\$	-
47	Distribution System (acq'd post Feb 22/05)	\$ 655,267,574		\$	655,267,574
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	\$ 542,321		\$	542,321
95	CWIP	\$ -		\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
	SUB-TOTAL - UCC	986,237,295		0	986,237,295





B13 B13

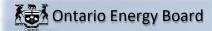
B13 B13 B13

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only
Capital gains reserves ss.40(1)			0
Tax reserves not deducted for accounting purp			
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712
Reserve for undelivered goods and services not			0
rendered ss. 20(1)(m)			, and the second
Reserve for unpaid amounts ss. 20(1)(n)			0
Debt & share issue expenses ss. 20(1)(e)			0
Other tax reserves			0
			0
			0
			0
			0
			0
Total	2,367,712	0	2,367,712
Financial Statement Reserves (not deductible f	or Tax Purposes)		1
General reserve for inventory obsolescence (non-			0
specific)			
General reserve for bad debts	3,183,844		3,183,844
Accrued Employee Future Benefits:			0
- Medical and Life Insurance			0
-Short & Long-term Disability			0
-Accmulated Sick Leave			0
- Termination Cost			0
- Other Post-Employment Benefits			0
Provision for Environmental Costs			0
Restructuring Costs			0
Accrued Contingent Litigation Costs			0
Accrued Self-Insurance Costs			0
Other Contingent Liabilities			0
Bonuses Accrued and Not Paid Within 180 Days			0
of Year-End ss. 78(4)			U
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)			0
Other			0
			0
			0
Total	3,183,844	0	3,183,844

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Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

Regulatory Taxable Income

	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate	
Ontario (Max 11.5%)	11.5%	11.5%	########	11.5% E	3
Federal (Max 15%)	15.0%	15.0%	#######	15.0% C	С

Combined effective tax rate (Max 26.5%)

Total Income Taxes

Investment Tax Credits
Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Bridge Year

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Wires Only

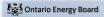
Reference

\$ 32,307,659 **A**

1	26.50%	D	=	В	+	(
		_	_	_	•	

\$ 8,561,530	E =	Α
\$ 85.000	lF	

\$ 85,000	F
	G
\$ 85,000	H = F + G



Adjusted Taxable Income - Bridge Year

	T2S1 line#	Working Paper Reference	Total for Regulated Utilis
Income before PILs/Taxes	(A + 101 + 102)		52,353,08
Additions: Interest and penalties on taxes	103	ı	5,00
Amortization of tangible assets	104		60,928,90
Amortization of intangible assets Recapture of capital cost allowance from	106	B8	
Schedule 8 Income inclusion under subparagraph		<u>50</u>	
13(38)(d)(iii) Income or loss for tax purposes- joint ventures	108		
or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,00
Charitable donations and gifts from Schedule 2	112		
Taxable capital gains Political contributions	113		
Deferred and prepaid expenses Scientific research expenditures deducted on	116		
financial statements	118		
Capitalized interest Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,00
Non-deductible automobile expenses	122 123		
Non-deductible life insurance premiums Non-deductible company pension plans	123		
Tax reserves deducted in prior year Reserves from financial statements- balance at	125	<u>B13</u>	2,367,71
end of year	126	<u>B13</u>	3,183,84
Soft costs on construction and renovation of buildings	127		
Capital items expensed Debt issue expense	206 208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt Non-deductible advertising	220 226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228	<u></u>	
Recapture of SR&ED expenditures Share issue expense	231		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1)	237		
and 12(1)(z.2) Other Additions		l	
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions Non-deductible penalties	295 295		780,00
	295		
ARO Accretion expense	295		
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits received			
Current Year Investment Tax Credits received			85,00
Current Year Investment Tax Credits received Total Additions Deductions Gain on disposal of assets per financial	MAS.		85,00 68,435,46
Current Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial sistements	401		85,00 68,435,46
Current Year Investment Tax Credits received Total Additions Deductions: Cain on disposal of assets per financial satterments satterments Capital cost disposal of assets per financial satterments satterments	402 403	88	68,435,46 80,027,98
Current Year Investment Tax Credits received Total Additions Deductions: Gain on digosal of assets per financial Gain on digosal of assets per financial Capital cost at observation of the cost of	402	B8 B8	68,435,46 80,027,98
Current Year Investment Tax Credits received Total Additions Deductions: Can on disposal of assets per financial Dividends not usable under section 63 Capital cost allowance from Schedule 8 Allowable business investment loss Deterred and prepared sperses	402 403 404 406 409	98 98	68,435,46 80,027,98
Current Year Investment Tax Credits received Total Additions Deductions: Deductions: Capital cost disposal of assets per financial satterness. Capital cost disposal of assets per financial satterness. Acceptat cost situative from Schedule a Terminal loss from Schedule and Terminal loss from Schedule and Acceptation Cost Schedule and Defended and propriat depenses. Determed and propriat depenses.	402 403 404 406 409 411		68,435,46 80,027,98
Current Year Investment Tax Credits received Total Additions Deductions Deductions Deviced not subset per financial statements statements for the subset per financial statements statements Allowable business investment loss Determent and personal personal statements Determent and personal personal statements Scale Statements Scale Statement loss Determent and personal dependent personal statements Scale Statement loss Scale Statement some statement loss Scale Statement some statement loss Tax reservers Estimated in current year	402 403 404 406 409 411 413	<u>B13</u>	85,00 68,435,46 80,027,92
Current Year Investment Tax Credits received Total Additions Deductions: Gain or disposal of assets per financial substitutes Substitutes Capital cost allowance from Schedule 8 Tarenial loss from Schedule 8 Allowable business investment loss Deferred and pragned operates Scientific research expenses claimed in year Reserves from financial substitutes in Scientific Rese	402 403 404 406 409 411 413 414		68,435,46 68,435,46 80,027,96 2,367,71 3,183,84
Total Additions Deductions: Total Additions Deductions: Gan on disposal of assets per financial statements and additions of the statement of the statement of the statements of the statement of the	402 403 404 406 409 411 413	<u>B13</u>	85,027,98 80,027,98 2,367,71 3,183,84 680,00
Total Additions Total Additions Deductions Deductions Deductions Deductions Deductions Deductions Deductions Deductions Capital cost allowers framenal systemates Declared and systemates Tax reserves claimed in current year Reserves from transical statements - bulance Contributions to declared ancome plans Book income of joint venture or partnership	402 403 404 406 409 411 413 414 416 305	<u>B13</u>	68,435,46 68,435,46 80,027,96 2,367,71 3,183,84 680,00
Current Year Investment Tax Credits received Total Additions Deductions: Cann on disposal of assets per financial Divisional to the state of the	402 403 404 406 409 411 413 414 416	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Current Year Investment Tax Credits received Total Additions Reductions Reductions Reductions Canin or disposal of assets per financial standards not standard and account of a compart of a standard and a standard and a standard and a standard and standard and a standard a standard and a standard an	402 403 404 406 409 411 413 414 416 305	<u>B13</u>	68,435,46 68,435,46 80,027,96 2,367,74 3,183,84 680,00
Total Additions Deductions: Total Additions Deductions: Can on disposal of assets per financial statements and additions: Can on disposal of assets per financial statements and additional statements and available under section \$3 Cappaig oral allevance from Schedule 8 Terminal loss from Schedule 9 Ter	402 403 404 406 409 411 413 414 416 305	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Total Additions Deductions: Total Additions Deductions: Can on disposal of assets per financial Dividends not assets per financial Capital cost alforence from Schedule 8 Terminal loss from Schedule 9 Ter	402 403 404 406 409 411 413 414 416 305 306	<u>B13</u>	65,435,46 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Current Year Investment Tax Credits received Total Additions Deductions: Deductions: Deductions: Can on disposal of assets per financial sattements: Capital cost allowage received in Statements Statements: Capital cost allowage received in Statements Terminal loss from Schedule 8 Adousbab business investment loss Deferred and prepaid expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from Institute statements - oblatical air bearinarie of veser Contributions to technical statements - oblation air bearinarie of veser Contributions to technical statements - oblation are bearinarie of veser Contributions to technical statements - oblation are bearinarie of veser Contributions to technical statements - oblation are bearinaries of veser Contributions of primaries statements of patients Contributions of primaries and statements applicated for accounting deducted for tax Capital Lesser Phymments Non-stackle imputed interest income on Societies Research & Experimental	402 403 404 406 409 411 413 414 416 305 306	<u>B13</u>	68,435,46 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Total Additions Deductions: Total Additions Deductions: Can on disposal of assets per financial Dividends not assets per financial Capital cost alforence from Schedule 8 Terminal loss from Schedule 9 Ter	402 403 404 406 409 411 413 414 416 305 306 396 395	<u>B13</u>	68,435,46 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Current Year Investment Tax Credits received Total Additions Deductions: Deductions: Deductions: Can on disposal of assets per financial sattements: Capital cost allowage received in Statements Statements: Capital cost allowage received in Statements Terminal loss from Schedule 8 Adousbab business investment loss Deferred and prepaid expenses Scientific research expenses claimed in year Tax reserves claimed in current year Reserves from Institute statements - oblatical air bearinarie of veser Contributions to technical statements - oblation air bearinarie of veser Contributions to technical statements - oblation are bearinarie of veser Contributions to technical statements - oblation are bearinarie of veser Contributions to technical statements - oblation are bearinaries of veser Contributions of primaries statements of patients Contributions of primaries and statements applicated for accounting deducted for tax Capital Lesser Phymments Non-stackle imputed interest income on Societies Research & Experimental	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,77 3,183,74 680,00
Current Year Investment Tax Credits received Total Additions Deductions Deductions Deductions Can on disposal of assets per financial satternesis. Capital cost allowate and received in State Capital cost allowate and received in State Terminal loss from Schedule 8 Adoustable business from Schedule 8 Terminal loss from Schedule 9 Terminal from Schedule 9 Term	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	68,435,46 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Deductions: Gain of disposal of assets per financial statements Deductions: Gain on disposal of assets per financial statements University of the disposal of assets per financial statements Deductions on tabusals under section 33 University of the disposal of assets per financial statements Terminal loss from Schedules Tax reserves from Introduction to part and propaid disposals to participated in participated in participated in the participated in the participated from substitution of affiliates Deform deductions Deform deductions Terminal participated for accounting deducted for capital Leases from school imputed interest income on deferral and variances accounts Non-tassible imputed interest income on deferral and variances accounts ARO Pagments - Deductible for Tax when Padl Trix 19(7) Election - Capital Contributions ARO Pagments - Deductible for Tax when Padl Trix 19(7) Election - Capital Contributions ARO Figurents - Deductible for Tax when Padl Trix 19(7) Election - Capital Contributions ARO Figurents - Deductible for Tax when Padl Trix 19(7) Election - Capital Contributions	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	68,435,46 68,435,46 60,027,96 2,367,71 3,183,84 680,00
Current Year Investment Tax Credits received Total Additions Reductions Reductions Reductions Can on disposal of assets per financial Dividends not swater access of assets per financial Dividends not swater under section 53 Creditation of the swater of a section 53 Creditation of the swater of a section 53 Deferred and propriet investment loss Deferred and propriet depended in pair Tax reserves Collimate propriets Scientific research propriets clarification of the section of the sect	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 80,027,98 2,367,71 3,183,84 680,00
Current Year Investment Tax Credits received Total Additions Deductions Deductions Deductions Can on disposal of assets per financial satternesis. Can on disposal of assets per financial satternesis. Can on disposal of assets per financial satternesis. Capital cost altowable under exclor 153 Capital cost altowable under exclor 153 Terminal loss from Schedule 8 Advocable business investment loss Deterred and prepaid expenses Scardiffic research expenses claimed in year Tax reserves claimed in current year Reserves for the expenses claimed in year Tax reserves claimed in current year Reserves for the expenses claimed in year Tax reserves claimed in current year Reserves for the expenses of the plans Deck income of joint venture or pathership Book income of joint venture or pathership The pathership	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions Total Additions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Total Additions Pediatrions Pediat	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Deductions Capital cost allowance for insurant statements Desurant insurant insurant insurant insurant statements Desurant insurant insurant insurant Schedule 8 Advantable business insuranter loss Deferred and prepaid depenses Deferred and prepaid depenses Existentific research repenses claimed in year Tax reserves claimed in current year schedule in come from the common of the common	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions Total Additions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Total Additions Pediatrions Pediat	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions Total Additions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Total Additions Pediatrions Pediat	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions Total Additions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Total Additions Pediatrions Pediat	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions Total Additions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Total Additions Pediatrions Pediat	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions Total Additions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Total Additions Pediatrions Pediat	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	68,435,46 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions Total Additions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Pediatrions Total Additions Pediatrions Pediat	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	68,435,46 68,435,46 80,027,98 2,367,71 3,183,84 680,00
Total Additions Pediatrions: Total Additions Pediatrions Total Additions Terminal loss from Schedule Tax reserves claimed in part of the Schedule Tax reserves claimed in current year Tax reserves claimed in current year Tax reserves claimed in current year Tax reserves claimed in companies Tax reserves claimed in care reserves Tax reserves claimed in companies Tax reserves c	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,96 2,367,71 3,183,84 680,00 2,221,38
Current Year Investment Tax Credits received Total Additions Deductions: Gain on disposal of assets per financial statements Deductions: Gain on disposal of assets per financial statements Deductions to the state of the	902 463 463 404 406 409 411 411 413 416 305 306 306 306 306 306 306 306 306 306 306	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00 2,221,38 88,480,83 32,307,63
Total Additions Reductions R	402 403 404 406 409 411 413 414 416 306 306 396	<u>B13</u>	85,00 68,435,46 80,027,98 2,367,71 3,183,84 680,00 2,221,38 88,480,83 32,307,63
Current Year Investment Tax Credits received Total Additions Reductions Reductions Reductions Reductions Reductions Cannon disposal of assets per financial satternesis. Terminal loss from Schedule 8 Advocable businesis mesement loss Deferred and prepaid expenses Cannon disposal disposal disposal disposal Tax reserves claimed in current year Reserves from Indicate sattements - oblation al bearinaria of veset Contributions to ta deferred income plans Book income of joint venture or pathereship The pathereship of the propriets in pathereship Capital Lesse Trayments Non stackle imputed interest income on Sosterish Research a Experimental Development Experimenta	902 463 463 404 406 409 411 411 413 416 305 306 306 306 306 306 306 306 306 306 306	<u>B13</u>	85.00 68.435.46 80.027.96 2.367.71 3.183.84 680.00 2.221.38
Total Additions Deductions: Claim of Stage Sta	402 463 463 464 466 469 411 413 414 416 306 306 306 306 306 306 309 306 309 306 309 306 307 308 308 309 308 308 308 308 308 308 308 308 308 308	B13 B13 B13 Calculated	85,00 68,435,46 80,027,98 80,027,98 80,027,98 2,267,71 3,143,84 680,00 2,221,38 88,460,85 32,307,65
Current Year Investment Tax Credits received Total Additions Deductions: Geductions: Geducti	402 463 463 464 466 469 411 411 413 414 414 414 305 306 306 306 306 306 306 306 307 307 307 307 307 307 307 307 307 307	B13 B13 B13 CHOLAINED	85,00 68,435,46

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 4
Schedule 1
Attachment H
UPDATED
May 5, 2020
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Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year	<u>B1</u>	0
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	0
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

<u>T4</u>

Net Capital Loss Carry Forward Deduction		Total
Actual Historical	<u>H4</u>	0
Amount to be used in Bridge Year		
Loss Carry Forward Generated in Bridge Year (if any)	<u>B1</u>	
Other Adjustments		
Balance available for use post Bridge Year	calculated	0

Τ4

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Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC AIP (column 8 plus column 6 minus column 3 plus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(18) UCC at the end of the bridge year (column 9 minus column 17)	P
1	Buildings, Distribution System (acq'd post 1987)	H8	\$ 128.917.465	s -	s -	s -	s -	s -	s -	\$ 128,917,465	s -	s -	0.50	s -	s -	4%			\$ 5,156,699	\$ 123,760,767	87
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	H8	\$ 76,683,476		\$ 1,283,620	\$ -	s -	\$ -	\$ -			\$ 1,283,620	0.50		\$ -	6%			\$ 4,716,534	\$ 73,250,562	
	Distribution System (acq'd pre 1988)	H8	\$ 36,385,516			\$ -	s -	\$ -	\$ -	\$ 36,385,516	\$ -	s -		s -	\$ -	6%			\$ 2,183,131	\$ 34,202,385	85
3	Buildings (acq'd pre 1988)	H8	\$ 4,335,934			\$ -	\$ -	\$ -	\$ -	\$ 4,335,934	\$ -	\$ -		\$ -	\$ -	5%			\$ 216,797	\$ 4,119,137	37
	Certain Buildings; Fences	H8	\$ -	\$ -	\$ -	\$ -	s -	\$ -	\$ -		\$ -	s -	0.50			10%	,		s -	\$ -	
8	General Office Equipment, Furniture, Fixtures	H8	\$ 10,964,902				\$ -	\$ -	\$ -	\$ 12,244,124		\$ 1,279,222	0.50			20%			\$ 2,576,747	\$ 9,667,377	
10	Motor Vehicles, Fleet	H8 H8	\$ 5,701,676	\$ 1,844,412	\$ 1,844,412	\$ -	s -	\$ -	\$ -	\$ 7,546,088	\$ -	\$ 1,844,412	0.50			30%			\$ 2,540,488	\$ 5,005,600	
	Certain Automobiles		s -	\$ -			\$ -	\$ -	\$ -	•	Ψ	S -	0.50		s -	30%			S -	\$ -	
	Computer Application Software (Non-Systems)	H8	s -	\$ 69,232			\$ -	\$ -				\$ 69,232	0.00			100%			\$ 69,232	\$ -	_
	Lease #1	H8	s -				\$ -	\$ -	\$ -			S -	0.00			NA				s -	
13 2	Lease # 2	<u>H8</u>	\$ -		s -	\$ -	\$ -	\$ -	\$ -			s -	0.00			NA				\$ -	
13,	Lease # 3	H8	\$ -		s -	\$ -	\$ -	\$ -	\$ -	S -		s -	0.00			NA				\$ -	
	Lease # 4	<u>H8</u>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	*	\$ -	0.00			NA				\$ -	
14	Limited Period Patents, Franchises, Concessions or Licences	H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -	S -	\$ -	s -	0.00		\$ -	NA				<u> </u>	
	Eligible Capital Property (acq'd pre Jan 1, 2017)	H8	\$ 7,500,207			s -	s -	\$ -	\$ -			S -		\$ -		7%			\$ 525,015	\$ 6,975,193	
	Eligible Capital Property (acq'd post Jan 1, 2017)	H8	\$ 55,236,941			\$ -	s -	\$ -	s -			\$ 2,135,698	0.50			5%			\$ 2,922,024	\$ 54,450,615	
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	H8	\$ 1,384,049		s -	\$ -	\$ -	\$ -	\$ -	\$ 1,384,049		\$ -	0.50		\$ -	8%			\$ 110,724	\$ 1,273,325	
	Fibre Optic Cable	H8	\$ 3,291,979	\$ 17,278	\$ 17,278	\$ -	s -	\$ -	ş -	\$ 3,309,257	1.7	\$ 17,278	0.50 2.33			12% 30%			\$ 398,148	\$ 2,911,110	10
	Certain Clean Energy/Energy-Efficient Generation Equipment	H8			\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	2.33						\$ -	\$ 12.566	
	Certain Clean Energy/Energy-Efficient Generation Equipment	H8	\$ 25,132		s -	2 -	\$ -	\$.	\$ -	\$ 25,132		S -				50%			\$ 12,566	\$ 12,566	66 66
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07) Data Network Infrastructure Equipment (acq'd post Mar 22/04)	H8 H8	\$ 120			\$ -	s -	\$ -	\$ -	\$ 120		S -	0.50			45% 30%			\$ 54	\$ 66	
	Data Network Intrastructure Equipment (acq'd post Mar 22/04) Distribution System (acq'd post Feb 22/05)	H8 H8	\$ 655 267 574	\$ 73,617,583	\$ 73,617,583	\$ -	s -	\$ -	s -	9		\$ 73.617.583	0.50			30% 8%			S 61.255.516	\$ 667 629 641	41
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	H8	\$ 542.321					s .		\$ 1,430,065		\$ 73,617,583 \$ 887,744	0.50			55%			\$ 1,030,666	\$ 399.400	
	CWIP	H8	\$ 542,321	\$ 667,744	\$ 667,744	e .		s .	š -		s .	9 887,744	0.50			0%			\$ 1,030,000	\$ 399,400	00
	2024 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal C	H8	s -	Ÿ		s .	9 .	s -	¥	9	*	s .	0.00	s -	*				-\$ 3.686.355	\$ 3,686,355	
	2024 Aujust for accordance own rate (starting 2024 maximum up to 2 times normal o	H8	s -				•	s .	s -			9		s -					9 3,000,333	\$ 3,000,300	33
		HB	s -				s -	s -	*			s -		s -						s -	_
		H8	s -				s -	s -				s -		s -						š -	=
		H8	s -	s -	s -	s -	s -	s -	s -	s -	s -	s -		s -	s -					s -	
		H8	\$ -	\$ -	s -	\$ -	s -	\$ -	\$ -	S -	\$ -	s -		s -	\$ -					\$ -	7
		H8	\$ -			\$ -	s -	\$ -	\$ -	s -	\$ -	s -		s -	\$ -					\$ -	7
		H8	\$ -							S -		s -		S -						\$ -	7
	TOTALS		\$ 986,237,295	\$ 81,134,789	\$ 81,134,789	\$ -	s -	\$ -	\$ -	\$ 1,067,372,084	\$ -	\$ 81,134,789		\$ 40,532,779	\$ -		\$ -	\$ -	\$ 80,027,985	B1 \$ 987,344,099	39



Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

Continuity of Reserves						Bridge Year	Adjustments				
Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Additions	Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	H13	1 0		0				1 0	T13		1
Tax Reserves Not Deducted for Accounting Purposes	1110								110		
Reserve for doubtful accounts ss. 20(1)(I)	H13	2,367,712		2,367,712				2,367,712	T13	(
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0					T13	(1
Reserve for unpaid amounts ss. 20(1)(n)	H13	0		0				0		(
Debt & share issue expenses ss. 20(1)(e)	H13	0		0				0	_	()
Other tax reserves	<u>H13</u>	0		0				0	<u>T13</u>	(
		0		0				0		()
Total		2,367,712	0	2,367,712	<u>B1</u>	0	0	2,367,712	<u>B1</u>	() (
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13	()
General Reserve for Bad Debts	H13	3,183,844		3,183,844				3,183,844		(
Accrued Employee Future Benefits:	H13	0		0				0	T13	(
- Medical and Life Insurance	H13	0		0				0		()
- Short & Long-term Disability	H13	0		0				0	T13	(
- Accumulated Sick Leave	H13	0		0				0	T13	()
- Termination Cost	<u>H13</u>	0		0				0	T13	()
- Other Post-Employment Benefits	<u>H13</u>	0		0				0	T13	()
Provision for Environmental Costs	<u>H13</u>	0		0				0	110	(j
Restructuring Costs	H13	0		0				0	<u>T13</u>	(j
Accrued Contingent Litigation Costs	<u>H13</u>	0		0				0	<u>T13</u>	(j
Accrued Self-Insurance Costs	<u>H13</u>	0		0				0	<u>T13</u>	(j
Other Contingent Liabilities	<u>H13</u>	0		0				0	<u>T13</u>	(j
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>H13</u>	0		0				0	<u>T13</u>	()
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>H13</u>	0		0				0	<u>T13</u>	()
Other	H13	0		0				0	T13	()
		0		0				0		()
		0		0				0		(j
Total		3,183,844	0	3,183,844	<u>B1</u>	0	0	3,183,844	<u>B1</u>	()



PILs Tax Provision - Test Year

Wires Only

Regulatory Taxable Income	<u>T1</u>	\$ 21,371,835 A

	rax Kale	Siliali busilless Rate	1 a	xes Payable	Ellective Tax Rate	
		(If Applicable)				
Ontario (Max 11.5%)	11.5%	11.5%	\$	2,457,761	11.5%	В
Federal (Max 15%)	15.0%	15.0%	\$	3,205,775	15.0%	С

Combined effective tax rate (Max 26.5%)

26.50% **D = B + C**

85,000 **F**

5,663,536 E = A * D

85,000 H = F + G

S. Summary

5,578,536 I = E - H

Total Income Taxes

Investment Tax Credits Miscellaneous Tax Credits

Total Tax Credits

Corporate PILs/Income Tax Provision for Test Year

Corporate PILs/Income Tax Provision Gross Up 1

2,011,309 K = I/J-I J = 1-D

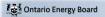
73.50%

Income Tax (grossed-up)

7,589,845 L = K + I S. Summary

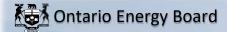
Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.



Income Tax/PILs Workform for 2020 Filers

		Working Paper Reference	Test Year Taxable Income
Net Income Before Taxes	TO 04 11 #	<u>A.</u>	54,261,49
Additions:	T2 S1 line #		
Interest and penalties on taxes Amortization of tangible assets	103		5,00
2-4 ADJUSTED ACCOUNTING DATA P489 Amortization of intangible assets			64,253,23
2-4 ADJUSTED ACCOUNTING DATA P490 Recapture of capital cost allowance from Schedule	106		
8	107	<u>T8</u>	
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108		
Loss in equity of subsidiaries and affiliates Loss on disposal of assets	110		1,000,00
Charitable donations	112		1,000,00
Taxable Capital Gains Political Donations	113 114		
Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements	118		
Capitalized interest Non-deductible club dues and fees	119		
Non-deductible club dues and rees Non-deductible meals and entertainment expense	120		85,00
Non-deductible automobile expenses	122		00,00
Non-deductible life insurance premiums	123		
Non-deductible company pension plans Tax reserves beginning of year	124 125	T13	2,367,71
Reserves from financial statements- balance at end of year	126	T13	3,183,84
Soft costs on construction and renovation of	127		
buildings Book loss on joint ventures or partnerships	205		
Capital items expensed Debt issue expense	206		
Development expenses claimed in current year	208		
Financing fees deducted in books	216		
Gain on settlement of debt	220		
Non-deductible advertising Non-deductible interest	226 227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures Share issue expense	231 235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2) Other Additions	237		
Other Additions Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,00
Non-deductible penalties	295 295		
	295 295		
	295		
ARO Accretion expense Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received Current Year Investment Tax Credits received			
			85,00
			85,00
			85,00
			85,00
			85,00
			85,00
Total Additions			
Total Additions Deductions:			
Total Additions Deblactions: Gain on disposal of assets per financial statements	401		
Total Additions Deductions: Gain on disposal of assets per financial statements Dividends not studie under section 83	402	Т8	71,759,78
Total Additions Deductions: Gain on disposal of assets per financial statements Divisiends not stable under section 83 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8	402 403 404	T8 T8	71,759,78
Total Additions Deductions: Dividends not stable under section 33 Terminal loss from Scheduler Terminal loss from Scheduler Allowable bosiness investment loss	402 403		71,759,78
Trate Additions Deductions: Gain on disposal of absets per financial statements Divisionals not statistic under section 33 Capital cost allowance from Schedule 8 Terminal tos from Schedule 8 Terminal tos from Schedule 8 Defermed and prepared experiences Scientific research opposites department	402 403 404 406 409 411	<u>T8</u>	71,759,78 95,761,20
Total Additions Deductions: Cain on disposal of asserts per financial statements Dividends not staable under section 83 Capital cost allowance it ions Scheduler 8 Temmaria base from Scheduler 9 Temmaria particular promotions Deferred and prepared expenses Scientific research expenses dismed in year Tax reserves and of year	402 403 404 406 409 411 413	T13	71,759,78 95,761,20 2,367,71
Total Additions Deductions: Dividends not tasable under section 33 Can on disposals of seeds per financial statements Dividends not tasable under section 33 Terminal loss from Scheduler 8 Terminal loss from Scheduler 8 Allowable bosiness investment loss Deferred and prepared expenses Scientific research operates datime in year Tax reserves end of year beginning of year and tatements: bullence at	402 403 404 406 409 411 413 414	<u>T8</u>	71,759,78 95,761,20 2,367,71 3,183,84
Total Additions Deductions: Gain on disposal of assets per financial statements Devidends not statuble under section 83 Capital cost allowards into Schedule 8 Allowards business interestant loss Deferred and prepared expenses Carrier section of prepared expenses Tax reserves and of year Reserves from forestant statements - balance at Reserves from forestant statements - balance at Contributions to deferred income plans Book income of pin vertures or pathereshy	402 403 404 406 409 411 413 414 416 305	T13	71,759,78 95,761,20 2,367,71 3,183,84
Total Additions Deductions: Gain on disposal of assets per financial statements Gain on disposal of assets per financial statements Deduction and training under section 83 Capital cost allowance from Schedule 8 Allowable bosiness investment loss Deferred and prepared ceptures. Scientific research expenses claimed in year Tax reserves and of year Reserves from financial statements - balance all Beginning of year Book income of joint venture or partmership Book income of joint venture or partmership Book income of joint venture or partmership	402 403 404 406 409 411 413 414 416	T13	71,759,78 95,761,20 2,367,71 3,183,84
Total Additions Deductions: Gain on disposal of assets per financial statements Dividends not stateble under section \$3 Capital cost allowance in time Schedule is Allowable business investment loss Deferred and prepared expenses Deferred and prepared expenses Scientific research opposes distance in year Tax insenses and of year Reserver's from financial statements - balance at Reserver's from financial statements - balance at Contributions to deferred income plans Book income of pin vertice or gaintensity Equily in noceme from subsidiary or affiliates Other deductions	402 403 404 406 409 411 413 414 416 305 306	T13	71,759,78 95,761,20 2,367,71 3,183,84
Total Additions Deductions: Gain on disposal of assets per financial statements Gain on disposal of assets per financial statements Deduction and training under section 83 Capital cost allowance from Schedule 8 Allowable bosiness investment loss Deferred and prepared ceptures. Scientific research expenses claimed in year Tax reserves and of year Reserves from financial statements - balance all Beginning of year Book income of joint venture or partmership Book income of joint venture or partmership Book income of joint venture or partmership	402 403 404 406 409 411 413 414 416 305	T13	71,759,78 95,761,20 2,367,71 3,183,84
Total Additions Deductions: Gain on disposal of assets per financial statements Devisedant on taxable under section 53 Capital cost allowance from Schedule 8 Terminal loss from Schedule 8 Allowable business investment loss Deferred and prepared septemes Scientific research expenses datumed in year Scientific research expenses datumed in year Tax reserves and of year Tax reserves and of year Book income plans or patherative Explayin in recome from sabilidary or affiliates Other deductions University of the second o	402 403 404 406 409 411 413 414 416 305 306	T13	71,759,78 95,761,20 2,367,71 3,183,84
Total Additions Deductions of a seeds per financial statements Dividends not studied under seeds of a seed per financial statements Dividends not studied under seeds of a seed per financial statements Dividends of the seeds of a seed of	402 403 404 406 409 411 413 414 416 305 306 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Obdactions: Gain on aspoal of assets per financial statements Defactions: Gain to aspoal of assets per financial statements Defaction of the statement of the	402 403 404 406 409 411 413 414 416 305 306 306 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Deductions of a seeds per financial statements Dividends not studied under seeds of a seed per financial statements Dividends not studied under seeds of a seed per financial statements Dividends of the seeds of a seed of	402 403 404 406 409 411 413 414 416 305 306 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Deductions of a seeds per financial statements Dividends not studied under seeds of a seed per financial statements Dividends not studied under seeds of a seed per financial statements Dividends of the seeds of a seed of	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Descrictions: Gain on disposal of assets per financial statements Descrictions: Capitr on disposal of assets per financial statements Descrictions and Capitro on allowards from Schodule 8 Terminal bost from Schodule 8 Equity in income from schodule 9 Terminal bost from Schodule 9 Termina	402 403 404 406 409 413 414 413 305 306 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Deductions: Gain or disposal of assets per financial statements Dividends and studies under section £9 Capital cost allowance from Schedule 8 Advantable business investment loss Deferred and prepade expenses Camera of the Capital Capital Capital Contribution from Financial statements - business at the Capital Contribution to deferred income plane Spacinting of yeals Deduction of price which is provided to the Capital Contribution to deferred income plane Deduction of the Capital Contribution to deferred income plane Contribution to deferred income plane Deduction of the Capital Contribution to deferred income plane Contribution to deferred income on deferred and various accounts Contributions on the Capital Lease Payments ARO Payments - Deductible for Tax when Paul ARO Payments - Deductible for Tax when Paul	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Descrictions: Gain on disposal of assets per financial statements Descrictions: Capitr on disposal of assets per financial statements Descrictions and Capitro on allowards from Schodule 8 Terminal bost from Schodule 8 Equity in income from schodule 9 Terminal bost from Schodule 9 Termina	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Obdactions: Gain on aspoal of assets per financial statements Defactions: Gain to aspoal of assets per financial statements Defactions and the statement of t	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Deductions Claim on disposal of asserts per financial statements Displaced and Statements Deferred and preparie degeners Deferred and preparie degeners Contributions from Schedule 8 Reservers from financial statements - balance at beginning of years Described to the Contributions of Deferred income plans Book focumed port vertice or partnership. Total of the Contributions of Deferred income plans Book focumed port vertice or partnership. Total of the Contributions of Deferred income on deferred income from subsidiary or afficient services or partnership. Cognital Essen Symptoms Statement of Contributions and Vertices accounting deducted for tax ord vertices accounts Scientific Research & Experimental Development Experiments - Deductible for Tax when Paul ITA 137(4) Election - Apply Lesse hardwarders of ITA 137(4) Election - Apply Lesse hardwarders of Deferred Research and 2001 (17) in second of ITA 137(4) Election - Apply Lesse hardwarders of Deferred Research and 2001 (17) in second ITA 137(4) (17)) in second ITA 137(4) (17) in se	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Deductions: Gain on disposal of assets per financial statements Ordinated to assets of the ordinate ordina	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
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Total Additions Deductions: Gain on disposal of assets per financial statements Disclared not studies under section 35 Capital cost advances from Schredule 8 Terminal toss from Schredule 8 Terminal toss from Schredule 8 Allowable business investment loss Deferred and preparie expenses Tax reserves and of year Contributions to deferred income plans Book income do not venture or patherativity Texput in recemb from subsidiary or afficiates Texput in recemb from subsidiary or afficiates Texput and the properties of the subsidiary or afficiates Texput and the properties of the subsidiary or afficiates Texput and the subsid	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Obdactions: Gain on sipopal of assets per financial statements Obviousing for obtable under section 33 Capital cost allowance from Schodule 8 Terminal loss flow Schodule 8 Allowalch bullets investment loss Scientific research Schodule 8 Allowalch bullets investment claims only sear Tax reserves and of year Reserves from financial statements - bullets on year Tax reserves and of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets or general plans Contributions to defend income plans Capital Lesses Payments Herest capital contributions on deferral and virtiance accounts Scientific Research & Experimental Development Expenses ARO Payments - Deductible for Tax when Paid (TA 13/7 4) Exercision - Apply Lesse inductioners to cost of Lessendoids Plentral Research - Tra 20(1)(in) reserve Principal protrion of insice payments Income	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Obdactions: Gain on sipopal of assets per financial statements Obviousing for obtable under section 33 Capital cost allowance from Schodule 8 Terminal loss flow Schodule 8 Allowalch bullets investment loss Scientific research Schodule 8 Allowalch bullets investment claims only sear Tax reserves and of year Reserves from financial statements - bullets on year Tax reserves and of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets or general plans Contributions to defend income plans Capital Lesses Payments Herest capital contributions on deferral and virtiance accounts Scientific Research & Experimental Development Expenses ARO Payments - Deductible for Tax when Paid (TA 13/7 4) Exercision - Apply Lesse inductioners to cost of Lessendoids Plentral Research - Tra 20(1)(in) reserve Principal protrion of insice payments Income	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Obdactions: Gain on sipopal of assets per financial statements Obviousing for obtable under section 33 Capital cost allowance from Schodule 8 Terminal loss flow Schodule 8 Allowalch bullets investment loss Scientific research Schodule 8 Allowalch bullets investment claims only sear Tax reserves and of year Reserves from financial statements - bullets on year Tax reserves and of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets or general plans Contributions to defend income plans Capital Lesses Payments Herest capital contributions on deferral and virtiance accounts Scientific Research & Experimental Development Expenses ARO Payments - Deductible for Tax when Paid (TA 13/7 4) Exercision - Apply Lesse inductioners to cost of Lessendoids Plentral Research - Tra 20(1)(in) reserve Principal protrion of insice payments Income	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Obdactions: Gain on sipopal of assets per financial statements Obviousing for obtable under section 33 Capital cost allowance from Schodule 8 Terminal loss flow Schodule 8 Allowalch bullets investment loss Scientific research Schodule 8 Allowalch bullets investment claims only sear Tax reserves and of year Reserves from financial statements - bullets on year Tax reserves and of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets or general plans Contributions to defend income plans Capital Lesses Payments Herest capital contributions on deferral and virtiance accounts Scientific Research & Experimental Development Expenses ARO Payments - Deductible for Tax when Paid (TA 13/7 4) Exercision - Apply Lesse inductioners to cost of Lessendoids Plentral Research - Tra 20(1)(in) reserve Principal protrion of insice payments Income	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00
Total Additions Deductions: Claim on disposal of asserts per financial statements Displaced and state of the section SI Capital coal additionate from Schedule 8 Account Schedule 8 Acc	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,76 95,761,20 95,761,20 2,367,71 3,163,84 680,00
Total Additions Obdactions: Gain on sipopal of assets per financial statements Obviousing for obtable under section 33 Capital cost allowance from Schodule 8 Terminal loss flow Schodule 8 Allowalch bullets investment loss Scientific research Schodule 8 Allowalch bullets investment claims only sear Tax reserves and of year Reserves from financial statements - bullets on year Tax reserves and of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets of year Reserves from financial statements - bullets on the period of year Reserves from financial statements - bullets or general plans Contributions to defend income plans Capital Lesses Payments Herest capital contributions on deferral and virtiance accounts Scientific Research & Experimental Development Expenses ARO Payments - Deductible for Tax when Paid (TA 13/7 4) Exercision - Apply Lesse inductioners to cost of Lessendoids Plentral Research - Tra 20(1)(in) reserve Principal protrion of insice payments Income	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,76 95,761,20 95,761,20 2,367,71 3,163,84 680,00
Total Additions Deductions: Claim on disposal of asserts per financial statements Displaced and state of the section SI Capital coal additionate from Schedule 8 Account Schedule 8 Acc	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 2,367,71 104,549,44
Total Additions Deductions: Cain on disposal of assets per financial statements Dividends not studies under section 23 Cain on disposal of assets per financial statements Dividends not studies under section 23 Terminal loss from Schedules 8 Allowable bosiness investment loss Deferred and prepared expenses Camera in the section of the	402 403 404 406 409 411 413 414 416 305 306 395 395 395 395 395 395 395 395 395	T13	71,759,78 95,761,20 95,761,20 2,367,71 2,367,71 104,549,44
Total Additions Deductions: Can on disposal of assets per financial statements Dividends not tasable under section 33 Can on disposal of assets per financial statements Dividends not tasable under section 33 Terminal loss from Scheduler 8 Allowable business inventured loss Deferred and prepared expenses Candific research inventured loss Deferred and prepared expenses Contributions to deferred income plans Book incomed point pulsaments: bullence at bestiming of year Contributions to deferred income plans Book incomed point underserved or partnership Equity in recome from subsidiating or affiliates Dividend expenses Dividend or and the properties of the contributions Deferred Report of the Contributions Capital Leases Payments Deferred Research & Experimental Development Expenses ARD Payments - Deductable for Tax when Paid TA 13/4 (Election - Capital Contributions Research TA 13/4 (Election - Capital Contributions) Research TA 13/4 (Election - Capital Contributions Research TA 13/4 (Election - Capital Contributions) Research TA 13/4 (Election - Capital Contributions) Research TA 13/4 (Election - Capital Cont	402 403 404 404 408 408 409 411 413 414 414 414 416 305 305 305 305 305 305 305 305 305 305	T13	71,759,78 95,761,20 95,761,20 2,367,71 2,367,71 104,549,44
Total Additions Deductions: Gain on disposal of assets per financial statements Deductions: Capital cost adjusted and statements Deductions and the cost of assets per financial statements Deduction and the cost of adjusted to the cost of adjusted to the cost of the co	402 403 404 404 406 409 409 411 413 414 414 416 306 306 307 307 307 307 307 307 307 307 307 307	TE J13 J13 L13 Calculated	71,759,76 95,761,20 95,761,20 2,967,71 3,163,84 680,00 2,656,68 104,649,44 21,371,83
Total Additions Deductions: Devidencia not fundable under section 33 Can on disposal of assets per financial statements Dividencia not tasable under section 33 Terminal loss from Scheduler 8 Terminal loss from Scheduler 8 Terminal loss from Scheduler 8 Terminal loss from Scheduler 9 Egyptin Income Inc	402 403 404 404 408 408 411 413 414 414 416 305 305 305 305 305 305 305 305 305 305	Tig Tig Tig Tig Tig Tig Tig Tig	71,759,78 95,761,20 95,761,20 2,367,71 3,183,84 680,00 2,656,68 104,649,44 21,371,83
Total Additions Deductions: Gain on disposal of assets per financial statements Deductions: Capital cost adjusted and statements Deductions and the cost of assets per financial statements Deduction and the cost of adjusted to the cost of adjusted to the cost of the co	402 403 404 404 406 409 409 411 413 414 414 416 306 306 307 307 307 307 307 307 307 307 307 307	TE J13 J13 L13 Calculated	71,759,76 95,761,20 95,761,20 2,967,71 3,163,84 680,00 2,656,68 104,649,44 21,371,83



Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

	Working Paper	Total	Non- Distribution	Utility Balance
Non-Capital Loss Carry Forward Deduction	Reference		Portion	
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years	<u>T1</u>	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	<u>T1</u>	0		0
Other Adjustments			_	0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non- Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	<u>B4</u>	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	<u>T1</u>	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

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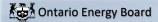


Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 7 (minus column 7) negative, enter "0")	(11) Net capital cost additions of AlIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant	4400	(13) UCC adjustment for non-AliP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	(18) UCC at the end of the test year (column 9 minus column 17)
	Buildings, Distribution System (acq'd post 1987)	B8	\$ 123,760,767							\$ 123,760,767	\$ -	\$.	0.50		\$ -	4%			\$ 4,950,431	\$ 118,810,336
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8	\$ 73,250,562	1,768,725	1,768,725					\$ 75,019,287	\$ -	\$ 1,768,725	0.50	\$ 884,363		6%			\$ 4,554,219	\$ 70,465,068
	Distribution System (acq'd pre 1988)	B8	\$ 34,202,385							\$ 34,202,385		\$.		\$.		6%			\$ 2,052,143	\$ 32,150,242
	Buildings (acq'd pre 1988)	B8	\$ 4,119,137							\$ 4,119,137	s -	\$.		s .	s -	5%			\$ 205,957	\$ 3,913,180
	Certain Buildings; Fences	B8	s -							\$.	s -	\$.	0.50		s -	10%			s -	s -
	General Office Equipment, Furniture, Fixtures	B8	\$ 9,667,377	2,703,557	2,703,557					\$ 12,370,934		\$ 2,703,557	0.50			20%			\$ 2,744,542	\$ 9,626,391
	Motor Vehicles, Fleet		\$ 5,005,600	467,753	467,753					\$ 5,473,353		\$ 467,753	0.50		\$ -	30%			\$ 1,712,169	\$ 3,761,184
	Certain Automobiles	B8	s -							\$.	s -	\$.	0.50		\$ -	30%			s -	\$ -
	Computer Application Software (Non-Systems)	B8	s -	13,594,320	13,594,320					\$ 13,594,320		\$ 13,594,320	0.00		\$ -	100%			\$ 13,594,320	s -
	Lease #1		s -							\$.		\$.	0.00		\$ -	NA				\$ -
	Lease # 2		\$ -							\$.		\$.	0.00		\$ -	NA				\$.
	Lease #3	<u>B8</u>	\$ -							\$.		\$.	0.00		\$ -	NA				\$ -
	Lease # 4		\$ -							\$.		\$.	0.00		\$ -	NA				\$ -
	Limited Period Patents, Franchises, Concessions or Licences	B8	\$ -							\$.		\$.	0.00		\$ -	NA				\$ -
	Eligible Capital Property (acq'd pre Jan 1, 2017)		\$ 6,975,193							\$ 6,975,193		\$.		\$.	\$ -	7%			\$ 488,263	\$ 6,486,929
	Eligible Capital Property (acq'd post Jan 1, 2017)	B8	\$ 54,450,615	7,305,683	7,305,683					\$ 61,756,298		\$ 7,305,683	0.50		\$ -	5%			\$ 3,270,457	\$ 58,485,841
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	\$ 1,273,325							\$ 1,273,325		\$.	0.50		\$ -	8%			\$ 101,866	\$ 1,171,459
	Fibre Optic Cable		\$ 2,911,110	39,097	39,097					\$ 2,950,207	s -	\$ 39,097	0.50		\$ -	12%			\$ 356,371	\$ 2,593,836
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8	s -							\$.	s -	\$.	2.33		\$ -	30%			s -	\$ -
	Certain Clean Energy/Energy-Efficient Generation Equipment	88	\$ 12,566							\$ 12,566		\$.	1.00	\$.	\$.	50%			\$ 6,283	\$ 6,283
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	B8	\$ 66							\$ 66		\$.		\$.	\$.	45%			\$ 30	\$ 36
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	B8	\$ -							\$.	\$ -	\$.	0.50		\$ -	30%			s -	\$ -
	Distribution System (acq'd post Feb 22/05)	B8	\$ 667,629,641	91,545,854	91,545,854					\$ 759,175,495		\$ 91,545,854	0.50		\$ -	8%			\$ 64,395,874	\$ 694,779,622
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	B8	\$ 399,400	1,573,599	1,573,599					\$ 1,972,999		\$ 1,573,599	0.50		\$ -	55%			\$ 1,517,889	\$ 455,110
	CWIP		\$ -							\$.		\$.	0.00	\$.	\$ -	0%			s -	\$ -
	2024 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal CCA)		\$ 3,686,355							\$ 3,686,355		\$.		\$.	\$ -					\$ 3,686,355
	2025 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal CCA)		\$ -							\$.	\$ -	\$.		\$.	\$ -				-\$ 4,189,607	\$ 4,189,607
			s -							\$.		\$.		\$.	s -					\$ -
		B8	s -							\$.	s -	\$.		\$.	s -					\$ -
		B8	s -							\$.	s -	\$.		\$.	s -					\$ -
		<u>B8</u>	s -							\$ -		\$ -		\$.	\$ -					\$ -
		B8	s -							\$ -		\$ -		s -	\$ -					s -
		B8	\$ -							\$ -		\$ -		\$ -	\$ -					\$ -
	TOTALS		\$ 987,344,099	\$ 118,998,588	\$ 118,998,588	\$-	\$ -	\$ -	\$ -	\$ 1,106,342,687	\$ -	\$ 118,998,588		\$ 52,702,134	\$ -		\$ -	\$ -	\$ 95,761,207	1 \$ 1,010,581,480

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Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Offilinally of Reserves						Test Year A	djustments	1			
Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Additions	Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	<u>B13</u>	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(I)	<u>B13</u>	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	<u>B13</u>	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	<u>B13</u>	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	<u>B13</u>	0		0				0		0	
Other tax reserves	<u>B13</u>	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		2,367,712	0	2,367,712	<u>T1</u>	0	0	2,367,712	<u>T1</u>	0	0
Financial Statement Reserves (not deductible for Tax Purposes)	B.40										
General Reserve for Inventory Obsolescence (non-specific)	<u>B13</u>	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	<u>B13</u>	0		0				0		0	
- Medical and Life Insurance	<u>B13</u>	0		0				0		0	
-Short & Long-term Disability	<u>B13</u>	0		0				0		0	
-Accmulated Sick Leave	<u>B13</u>	0		0				0		0	
- Termination Cost	<u>B13</u>	0		0				0		0	
- Other Post-Employment Benefits	<u>B13</u>	0		0				0		0	
Provision for Environmental Costs	<u>B13</u>	0		0				0		0	
Restructuring Costs	<u>B13</u>	0		0				0		0	
Accrued Contingent Litigation Costs	<u>B13</u>	0		0				0		0	
Accrued Self-Insurance Costs	<u>B13</u>	0		0				0		0	
Other Contingent Liabilities	<u>B13</u>	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	<u>B13</u>	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	<u>B13</u>	0		0				0		0	
Other	<u>B13</u>	0		0				0		0	
		0		0				0		0	
	_	0		0				0		0	
Total		3,183,844	0	3,183,844	<u>T1</u>	0	0	3,183,844	<u>T1</u>	0	0

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(1) Class	Class Discription	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AllP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or received during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 8 plus column 4 minus column 4 minus column 4 minus column 4 minus			(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 8 pff negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	UCC at the end of the seat year (column 5 minus column 17)
	Buildings, Distribution System (acq'd post 1987)	B8	\$ 128,917,465.00							\$ 128,917,465	s -	\$ -	0.00	\$ -	\$ -	4%			\$ 5,156,699	\$ 123,760,766
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]		\$ 76,683,476.00	1,283,620	1,283,620					\$ 77,967,096	s -	\$ 1,283,620	0.00		s -	6%			\$ 4,678,026	\$ 73,289,070
	Distribution System (acq'd pre 1988)		\$ 36,385,516.00							\$ 36,385,516	\$ -	\$ -	0.00		\$ -	6%			\$ 2,183,131	\$ 34,202,385
	Buildings (acq'd pre 1988)		\$ 4,335,934.00							\$ 4,335,934	\$ -	\$ -	0.00		\$ -	5%			\$ 216,797	\$ 4,119,137
	Certain Buildings; Fences		\$ -							\$ -			0.00		\$ -	10%			\$ -	s -
	General Office Equipment, Furniture, Fixtures		\$ 10,964,902.00	1,279,222	1,279,222					\$ 12,244,124		\$ 1,279,222	0.00		\$ -	20%			\$ 2,448,825	\$ 9,795,299
	Motor Vehicles, Fleet		\$ 5,701,676.00	1,844,412	1,844,412					\$ 7,546,088	s -	\$ 1,844,412	0.00		\$ -	30%			\$ 2,263,826	\$ 5,282,262
	Certain Automobiles	<u>B8</u>	\$ -							\$ -	s -	\$ -	0.00		\$ -	30%			\$ -	s -
	Computer Application Software (Non-Systems)		\$ -	69,232	69,232					\$ 69,232	s -	\$ 69,232	0.00		\$ -	100%			\$ 69,232	s -
13 1	Lease # 1	<u>B8</u>	s -							\$ -	s -	\$ -	0.00		\$ -	NA				s -
			\$ -							\$ -	-		0.00			NA				\$ -
	Lease # 3	<u>B8</u>	\$ -							\$ -	-		0.00		\$ -	NA				\$ -
	Lease # 4	<u>B8</u>	s -							\$ -	\$ -	\$ -	0.00		\$ -	NA				\$ -
14	Limited Period Patents, Franchises, Concessions or Licences	<u>B8</u>	\$ -							\$ -	s -	\$ -	0.00		\$ -	NA				s -
	Eligible Capital Property (acq'd pre Jan 1, 2017)		\$ 7,500,207.00							\$ 7,500,207			0.00		\$ -	7%			\$ 525,014	\$ 6,975,193
	Eligible Capital Property (acq'd post Jan 1, 2017)		\$ 55,236,941.00	2,135,698	2,135,698					\$ 57,372,639	s -	\$ 2,135,698	0.00		\$ -	5%			\$ 2,868,632	\$ 54,504,007
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage		\$ 1,384,049.00							\$ 1,384,049			0.00		\$ -	8%			\$ 110,724	\$ 1,273,325
	Fibre Optic Cable		\$ 3,291,980.00	17,278	17,278					\$ 3,309,258	\$ -	\$ 17,278	0.00		\$ -	12%			\$ 397,111	\$ 2,912,147
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ -							\$ -	\$ -		0.00		\$ -	30%			\$ -	s -
	Certain Clean Energy/Energy-Efficient Generation Equipment		\$ 25,132							\$ 25,132			0.00		\$ -	50%			\$ 12,566	\$ 12,566
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)		\$ 120.00							\$ 120	s -	\$ -	0.00		\$ -	45%			\$ 54	\$ 66
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>B8</u>	s -							\$ -	s -	\$ -	0.00		\$ -	30%			\$ -	\$ -
	Distribution System (acq'd post Feb 22/05)		\$ 655,267,574	73,617,583	73,617,583					\$ 728,885,157	\$ -	\$ 73,617,583	0.00		\$ -	8%			\$ 58,310,813	\$ 670,574,344
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)		\$ 542,321.00	887,744	887,744					\$ 1,430,065	\$ -	\$ 887,744	0.00		\$ -	55%			\$ 786,536	\$ 643,529
95	CWIP	<u>B8</u>	\$ -							\$ -	\$ -	\$ -	0.00		\$ -	0%			\$ -	\$ -
			s -							\$ -		\$ -		\$ -	\$ -					\$ -
			s -							\$ -	\$ -	\$ -		\$ -	\$ -					\$ -
			s -							\$ -		\$ -		\$ -	\$ -					\$ -
		<u>B8</u>	\$ -							\$ -	\$ -	\$ -		\$ -	\$ -					\$ -
		<u>B8</u>	\$ -							\$ -	s -	\$ -		\$ -	\$ -					\$ -
		<u>B8</u>	\$ -							\$ -		\$ -		\$ -	\$ -					\$ -
			s -							\$ -		\$ -		\$ -	\$ -					\$ -
			s -							\$ -	\$ -	\$ -		\$ -	\$ -					\$ -
	TOTALS		\$ 986,237,293	\$ 81,134,789	\$ 81,134,789	\$ -	\$ -	s -	\$-	\$ 1,067,372,082	\$ -	\$ 81,134,789		\$ -	\$ -		\$ -	\$ -	\$ 80,027,985	T1 \$ 987,344,097

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Hydro Ottawa Limited December 31, 2025

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC o AIIP (column 8 plus column 6 minus column 4 minus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AliP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor (after 2023 no more 1.5 times, but half year rule still suspended)	(12) UCC adjustment for AIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 7 minus column 8) (if negative, enter "0")	(14) CGA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)	UCC at the end of the test year (cool coolumn 17)
1	Buildings, Distribution System (acq'd post 1987)	B8	\$ 123,760,766							\$ 123,760,766	s -	\$ -	0.00	s -	\$ -	4%			\$ 4,950,431	\$ 118,810,336
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8	\$ 73,289,070	1,768,725	1,768,725					\$ 75,057,795	\$ -	\$ 1,768,725	0.00	\$ -	\$ -	6%			\$ 4,503,468	\$ 70,554,328
2	Distribution System (acq'd pre 1988)	<u>B8</u>	\$ 34,202,385							\$ 34,202,385	s -	\$ -	0.00		\$ -	6%			\$ 2,052,143	\$ 32,150,242
3	Buildings (acq'd pre 1988)	B8	\$ 4,119,137							\$ 4,119,137	s -	\$ -	0.00		\$ -	5%			\$ 205,957	\$ 3,913,180
6	Certain Buildings; Fences	B8	\$ -							\$ -	s -		0.00		\$ -	10%			s -	\$ -
8	General Office Equipment, Furniture, Fixtures	<u>B8</u>	\$ 9,795,299	2,703,557	2,703,557					\$ 12,498,856	s -	\$ 2,703,557	0.00		\$ -	20%			\$ 2,499,771	\$ 9,999,085
	Motor Vehicles, Fleet	<u>88</u>	\$ 5,282,262	467,753	467,753					\$ 5,750,015	s -	\$ 467,753	0.00		\$ -	30%			\$ 1,725,004	\$ 4,025,010
	Certain Automobiles	<u>88</u>	s -							s -	s -	s -	0.00		\$ -	30%			s -	s -
	Computer Application Software (Non-Systems)	<u>B8</u>	\$ -	13,594,320	13,594,320					\$ 13,594,320	\$ -	\$ 13,594,320	0.00		\$ -	100%			\$ 13,594,320	s -
	Lease #1	<u>B8</u>	\$ -							\$ -	\$ -	\$ -	0.00		\$ -	NA				s -
	Lease # 2	B8	\$ -							s -	\$ -	s -	0.00		\$ -	NA				s -
	Lease # 3	B8	\$ -							s -	\$ -	s -	0.00		\$ -	NA				s -
	Lease # 4	B8	\$ -							s -	\$ -	s -	0.00		\$ -	NA				s -
	Limited Period Patents, Franchises, Concessions or Licences	B8	\$ -							s -	\$ -	s -	0.00		\$ -	NA				s -
	Eligible Capital Property (acq'd pre Jan 1, 2017)	<u>B8</u>	\$ 6,975,193							\$ 6,975,193			0.00		\$ -	7%			\$ 488,263	\$ 6,486,929
	Eligible Capital Property (acq'd post Jan 1, 2017)	<u>B8</u>	\$ 54,504,007	7,305,683	7,305,683					\$ 61,809,690		\$ 7,305,683	0.00			5%			\$ 3,090,485	\$ 58,719,206
	Elec. Generation Equip. (Non-Bidng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	\$ 1,273,325							\$ 1,273,325		s -	0.00		\$ -	8%			\$ 101,866	\$ 1,171,459
	Fibre Optic Cable	B8	\$ 2,912,147	39,097	39,097					\$ 2,951,244	\$ -	\$ 39,097	0.00		\$ -	12%			\$ 354,149	\$ 2,597,095
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ -							s -	\$ -	s -	0.00		\$ -	30%			\$ -	s -
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8	\$ 12,566							\$ 12,566		s -	0.00			50%			\$ 6,283	\$ 6,283
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	<u>B8</u>	\$ 66							\$ 66			0.00			45%			\$ 30	\$ 36
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>B8</u>	\$ -							\$ -	\$ -		0.00		\$ -	30%			\$ -	\$ -
	Distribution System (acq'd post Feb 22/05)	<u>B8</u>	\$ 670,574,344	91,545,854						\$ 762,120,198		\$ 91,545,854	0.00			8%			\$ 60,969,616	\$ 701,150,583
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>	\$ 643,529	1,573,599	1,573,599					\$ 2,217,128	s -	\$ 1,573,599	0.00		\$ -	55%			\$ 1,219,421	\$ 997,708
95	CWIP	B8	\$ -							\$ -	\$ -	\$ -	0.00	\$ -	\$ -	0%			\$ -	\$ -
		B8	\$ -							s -	\$ -	s -		\$ -	\$ -					s -
		B8	\$ -							s -	\$ -	s -		\$ -	\$ -					s -
		<u>B8</u>	\$ -							\$ -	s -	\$ -		s -	\$ -					s -
		<u>B8</u>	\$ -							\$ -	s -	\$ -		s -						s -
		<u>B8</u>	\$ -							s -	s -	s -		s -	\$ -					s -
		<u>B8</u>	\$ -							s -	s -	s -		s -	\$ -					s -
		B8	s -							\$ -	s -	s -		s -	\$ -					s -
		<u>B8</u>	\$ -							\$ -	s -	\$ -		s -	\$ -					S -
	TOTALS		\$ 987,344,097	\$ 118,998,588	\$ 118,998,588		\$ -	\$ -	\$ -	\$ 1,106,342,685	\$ -	\$ 118,998,588		\$ -	\$ -		\$ -	\$ -	\$ 95,761,206	T1 \$ 1,010,581,479



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UPDATED LOST REVENUE ADJUSTMENT MECHANISM

2

1

1. INTRODUCTION

On March 31, 2010, the Ministry of Energy and Infrastructure issued a directive ("2010 Directive") to the OEB to take steps in order to establish Conservation and Demand Management ("CDM") targets to be met by licenced electricity distributors over a four-year 7 period beginning January 1, 2011.1

8

In response to the 2010 Directive, the OEB established the Conservation and Demand Management Code for Electricity Distributors ("CDM Code") in September 2010. In addition, in April 2012 the OEB issued a set of Guidelines for Electricity Distributor Conservation and Demand Management ("2012 CDM Guidelines") which articulated more specific guidance on the obligations and requirements in relation to CDM targets with which distributors were mandated to comply, as stipulated in their licences.² Of note, the 2012 CDM Guidelines provided updated details on the Lost Revenue Adjustment Mechanism ("LRAM") which was 16 set-up to compensate distributors for lost revenues resulting from CDM programs for the 17 2011-2014 period. The CDM Code and 2012 CDM Guidelines were applicable for all activities 18 related to the 2011-2014 CDM Framework.

19

20 Under the 2011-2014 CDM Framework, results were predominantly achieved through the 21 delivery of provincially-developed programs that were funded by the Ontario Power Authority 22 ("OPA") in cooperation with electricity distributors.³ The 2011-2014 framework terminated on

23 December 31, 2014.

²⁴ Ministry of Energy and Infrastructure, *Directive* EB-2010-0216 (March 31, 2010).

²⁵ Ontario Energy Board, Guidelines for Electricity Distributor Conservation and Demand Management,

EB-2012-0003, (April 26, 2012).

References to the OPA remain for activities occurring prior to January 1, 2015. As of January 1, 2015, the functions

²⁸ of the OPA were transferred to the Independent Electricity System Operator through a merger of the two

²⁹ organizations.



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In 2013, the Government of Ontario released an updated Long-Term Energy Plan ("LTEP").⁴ A key priority in the 2013 LTEP was reinforcement of the principle of "conservation first" in the electricity sector's planning processes. In conjunction with the implementation of the 2013 LTEP, the Ministry of Energy established a new Conservation First Framework ("CFF"). The CFF was structured around the goal of achieving 7 TWh of electricity savings province-wide from 2015-2020, with programs funded by the Independent Electricity System Operator ("IESO") and delivered by electricity distributors. In turn, the OEB received a directive from the Minister of Energy on March 31, 2014 that required the OEB to promote CDM and establish guidelines for CDM program implementation by electricity distributors. These new CDM guidelines were effective as of January 1, 2015, as part of the launch of the CFF framework.

11

On March 20, 2019, the Minister of Energy, Northern Development and Mines issued a directive to the IESO mandating the discontinuance of the CFF and the establishment of an Interim Framework for CDM programming. Under the Interim Framework, the new province-wide target for CDM savings is 1.4 TWh, with this framework scheduled to expire on December 31, 2020.

16

Subsequent to the discontinuance of the 2015-2020 CFF framework, the OEB issued a letter to distributors on June 20, 2019 stating that distributors should continue to have access to LRAM related to the successful delivery of CFF programs.⁵ In addition, the OEB issued an addendum to both the *Chapter 2* and *Chapter 3 Filing Requirements for Electricity Distribution Rate Applications*, in order to make modifications reflecting the new requirements set forth in the Interim Framework.⁶

23

24 For additional information on the termination of the CFF and the establishment and 25 implementation of the Interim Framework, please see Exhibit 4-1-6: Conservation and Demand 26 Management.

²⁷ Ministry of Energy, Achieving Balance - Ontario's Long-Term Energy Plan (December 2013).

²⁸ Ontario Energy Board, Letter re: Lost Revenue Adjustment Mechanism for 2020 Rate Applications (June 20, 2019).

²⁹ 6 https://www.oeb.ca/sites/default/files/Addendum-to-Filing-Requirements-20190715.pdf.



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1 The IESO has made monthly Participation and Cost Reports available to electricity distributors

2 from January 1, 2018 to March 31, 2019. These reports include incremental first year energy

3 savings as well as information related to persistence. The OEB has directed that the results

4 from the IESO's 2017 program evaluation should be applied to the January 1, 2018 to March

5 31, 2019 gross unverified savings values, including net-to-gross factors and gross realization

6 rates. To calculate net savings values at the project level, distributors are instructed to rely on

7 results from the IESO's 2017 program evaluation.

8

9 2. LOST REVENUE ADJUSTMENT MECHANISM VARIANCE ACCOUNT

The CDM Guidelines issued in 2012 authorized the establishment of an LRAM variance account ("LRAMVA") Uniform System of Accounts ("USofA") 1568 for the 2011-2014 CDM period to

12 capture, at the customer rate-class, the difference between the following:

13 14

15

16

17

18

The results of the actual verified impacts of authorized CDM activities undertaken by the
electricity distributor for OEB-approved CDM programs and/or OPA-Contracted
Province-Wide CDM programs in relation to activities undertaken by the distributor
and/or delivered for the distributor by a third party under contract (in the distributor's
franchise area);

1920

AND

2122

 The level of CDM program activities included in the distributor's load forecast (i.e. the level embedded into rates).⁸

24

23

25 Account 1568 has also been approved for use for LRAM variances related to the 2015-2020

26 CFF framework.

⁷ Ontario Energy Board, *Addendum to Filing Requirements for Electricity Distribution Rate Applications - 2020 Rate Applications* (July 15, 2019), pages 6-7.

⁸ Ontario Energy Board, *Guidelines for Electricity Distributor Conservation and Demand Management*, EB-2012-0003, (April 26, 2012), Appendix B, pages 13 and 21.



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- 1 Hydro Ottawa will follow section 2.4.6.2 of the Chapter 2 Filing Requirements for Electricity
- 2 Distribution Rate Applications, as updated on July 12, 2018 and addended on July 15, 2019,
- 3 which states that electricity distributors must apply for the clearance of energy-related and/or
- 4 demand-related LRAMVA balances attributable to approved energy efficiency programs in a
- 5 Cost of Service ("COS") year. As per this Application, this year is 2021 for Hydro Ottawa's
- 6 purposes.

7

- Moreover, according to an additional set of CDM guidelines issued by the OEB in 2014,
- 9 "[d]istributors should continue to rely on the LRAMVA to track and dispose lost revenues that
- 10 result from approved CDM programs between 2015-2020." At the time of filing this Application,
- 11 Hydro Ottawa can support the 2014 LRAM claims. Hydro Ottawa will provide LRAM claims for
- 12 years after 2014 as part of subsequent updates to this Application. Please refer to Exhibit 4-5-2:
- 13 LRAM Variance Account for details on the disposition of LRAMVA being proposed.

14

- 15 Hydro Ottawa has appended the 2014-2017 annual IESO Final Verified Reports to this
- 16 Schedule, as follows:

17 18

- Attachment 4-5-1(A): IESO Final Verified 2014 CDM Report
- Attachment 4-5-1(B): IESO Final Verified 2015 CDM Summary Report
- Attachment 4-5-1(C): IESO Final Verified 2016 CDM Summary Report
- Attachment 4-5-1(D): IESO Final Verified 2017 CDM Summary Report

22

- In conjunction with the updates being made to this Application, Hydro Ottawa has appended the
- 24 following Attachment to this Schedule:

2526

Attachment 4-5-1(E): 2018 IESO Program Participation and Cost Report

27

⁹ Ontario Energy Board, *Conservation and Demand Management Requirement Guidelines for Electricity Distributors*, EB 2014 0278 (December 19, 2014) undated August 11, 2016), page 11



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- 1 As per the aforementioned addendum to the OEB's filing requirements, Hydro Ottawa will rely
- 2 on the IESO's monthly Participation and Cost Reports from January 1, 2018 to March 31, 2019
- 3 for LRAM calculations after 2017.

Program Participation & Cost Report Message from the IESO Reporting Team

The IESO is pleased to provide LDCs with the Monthly Program Participation & Cost Report.

This report is generally posted on the IESO LDC Extranet by the Friday of the week following the 15th of each month. The report provides province-wide and LDC specific program participation and costs to the extent known based on information received by the IESO from all distribution companies and IESO Value Added Service Provider.

The Monthly Program Participation & Cost Report includes preliminary, unverified results based on information received by the IESO. Upon verification of project information through the IESO Evaluation, Measurement and Verification (EM&V) process, results will be reported as 'verified'. Performance against CDM Plan information is also available in this report and is based on the LDC's approved CDM Plan as at the end of the reporting period. Where two or more LDCs have submitted a joint CDM Plan, the IESO will provide a Monthly Program Participation & Cost Report for each LDC included in the CDM Plan.

The IESO strives to improve on the current reporting processes to provide meaningful and timely information to LDCs. Your feedback is encouraged and appreciated. Should you have any feedback, questions or comments on this report please contact us at LDC.Support@ieso.ca.

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Program Participation & Cost Report Summary

Hydro Ottawa Limited 15-Feb-19 As of:

CDM Plan 395.036.000 CFF Target (kWh): \$105,238,136 CFF Budget:

Allocated 394,539,159 \$105,242,155

Paid Pre-Funding

\$4,447,050

Summary of Performance Metrics

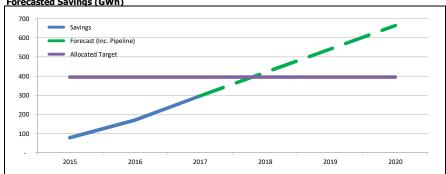
	:	2019 CDM Results	2019 CDM Plan %	6-year CDM Results	6-year CDM Plan %	6-year Allocated %
Net Energy Savings (kWh) as at 2020		6,322	0%	332,068,340	84.1%	84.2%
Total Actual Spending (\$)	\$	1,402,316	6%	\$ 59,859,537	56.9%	56.9%
Cost-effectiveness: Total Resource Cost Test (Ratio)		1.28		1.26		
Cost-effectiveness: Program Administrator Cost Test (Ratio)		3.73		2.96		
Cost-effectiveness: Levelized Unit Flectricity Cost (\$/kWh)		0.02		0.02		

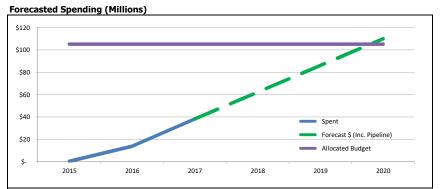
LDC Ranking in the Province out of 67

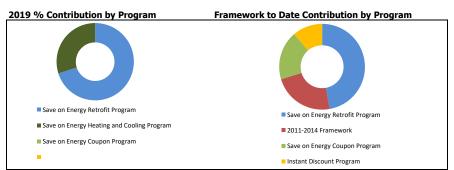
	Total % of 6-year Allocated Budget Spent	Total % of 6- year Allocated Target
This Month:	15	28
Last Month:	15	27

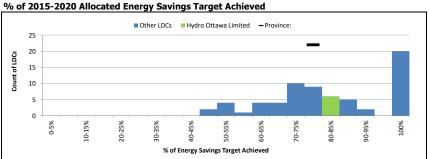
MTI Calculated Payout: 2015-17 kWh & MTI Rate: 4,141,305 276,086,993 0.15 cents/kWh Paid MTI Amount: 4,141,305

Forecasted Savings (GWh)



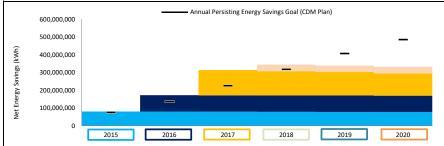


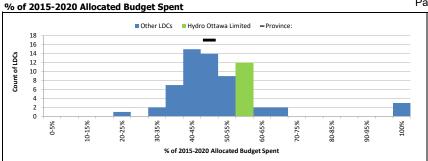




Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 1 Attachment E UPDATED May 5, 2020 Page 3 of 3

Persisting Energy Savings by Year







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UPDATED LRAM VARIANCE ACCOUNT

1. INTRODUCTION

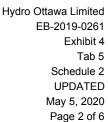
As part of the updates to this Application for 2019 actuals, Hydro Ottawa is seeking Lost Revenue Adjustment Mechanism ("LRAM") recovery in the amount of (\$2,733,351), including principal of (\$2,506,838) and carrying charges of (\$226,513). As originally submitted, Hydro Ottawa requested an LRAM recovery of \$(491,812), including principal of \$(444,449) and carrying charges of \$(47,363). This updated amount represents Conservation and Demand Management ("CDM") savings reported in 2014 and includes the adjustments for 2013, 2015, and 2016. The LRAM calculation is included in UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule). In addition, please refer to UPDATED Exhibit 9-3-1: Disposition of Deferral and Variance Accounts for details regarding the disposition period and rate riders for the LRAM variance account ("LRAMVA").

At the time of filing this Application, Hydro Ottawa can support the 2014 LRAM claims. Hydro Ottawa may provide further LRAM claims for years after 2014 as part of future updates to this Application.

At the time of filing updates to this Application which account for 2019 actuals, Hydro Ottawa can support the 2014, 2015, and 2016 LRAM claims. Hydro Ottawa does not intend to propose any further years to be cleared at this time.

2. INPUT ASSUMPTIONS

Hydro Ottawa confirms that it is using the most recent input assumptions available for calculating lost revenue at the time of filing this Application. This includes the final 2014 to 2017 verified results report from the Independent Electricity System Operator ("IESO") and the Program Participation & Cost Report for 2018, dated February 15, 2019. For detailed savings inputs for 2014, please refer to Attachment 4-5-2(A): OEB Workform - 2014 LRAM VA Workform





and Attachment 4-5-2(B): OEB Workform - 2014 Adjustments - LRAM VA Workform. After accounting for 2019 actuals, Attachments for 2015 and 2016 LRAM calculation have been included. New Attachments have been included, as follows:

- Attachment 4-5-2(C): OEB Workform 2015 (2011-2014) LRAM VA Workform
- Attachment 4-5-2(D): OEB Workform 2015 (2015-2020) LRAM VA Workform
- Attachment 4-5-2(E): OEB Workform 2016 LRAM VA Workform

Hydro Ottawa confirms that it has relied upon the most recent final IESO CDM reports evaluation from 2014 to 2017 in support of the lost revenue calculation for 2014 to 2016. For 2018 adjustments, Hydro Ottawa followed the guidance provided in the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements"). The IESO's Final Verified 2014, 2015, and 2016 CDM Reports can be found in Attachment 4-5-1(A), Attachment 4-5-1(B), and Attachment 4-5-1(C), respectively.

Hydro Ottawa used its respective OEB-approved variable distribution charges in calculating the lost revenue. Hydro Ottawa confirms that carrying charges are being requested on the LRAMVA. The interest rate used for the calculation of all carrying charges was that which was prescribed by the OEB and published quarterly on its website. Please see UPDATED Exhibit 9-1-1: Summary of Current Deferral and Variance Accounts for further details on the carrying charges.

Hydro Ottawa notes that the OEB has indicated that adjustments to past LRAM claims should not be requested. Hydro Ottawa is seeking recovery of the 2013 adjustments that were first reported on the IESO Final Verified 2014 CDM Report ("2014 Report"). The 2013 adjustments were received after the initial filing of Hydro Ottawa's 2016-2020 Custom Incentive Rate-Setting

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 UPDATED May 5, 2020 Page 3 of 6



("Custom IR") application, which included the utility's disposal requests.¹ At the time of that application's filing, the OEB had previously directed that "At a minimum, distributors must apply for the disposition of the balance in the LRAMVA as part of their COS applications." In its 2016-2020 application, Hydro Ottawa complied with these instructions.

Subsequent to Hydro Ottawa's approved disposal, the OEB clarified that the LRAMVA account disposition was related to the calendar year rather than the IESO report. Had this clarification been made prior to Hydro Ottawa requesting disposition, the utility would have considered it prudent to wait to clear the 2013 year (given that the IESO reports could include significant adjustments). As such, Hydro Ottawa is requesting only the 2013 adjustments related to the 2014 Report and believes that this falls within prospective treatment of changes in requirements.

In addition, at this time Hydro Ottawa will not request disposition of LRAM amounts after 2014 until it has determined that no material adjustments are outstanding related to years after 2014. Hydro Ottawa will provide an update on this matter at a later point in this Application's proceeding.

By way of the filing of updates to this Application to account for 2019 actuals, Hydro Ottawa is requesting to dispose of LRAM amounts to the end of 2016.

For lost revenue in relation to streetlights, Hydro Ottawa has maintained a database of converted lights which tracks the original light fixture kWh and kW, as well as the kWh and kW after the light has been converted. Hydro Ottawa has used this data to support the streetlight lost revenue claim.

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

¹ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).

² Ontario Energy Board, Chapter 2 - Cost of Service Rate Applications Based on a Foreward Test Year (July 18, 2014).



3. CDM PROGRAMS AND INITIATIVES BY RATE CLASS

Table 1 shows the Lost Revenue from the IESO Final Verified Annual 2014 CDM Report by rate class and by year.

Table 1 – Lost Revenue by Year by Rate Class - 2014 Report³

	2013	2014	Total
Residential	\$11,116	\$301,347	\$312,463
GS< 50 kW	\$549	\$248,301	\$248,850
Commercial	\$56,120	\$(105,180)	\$(49,061)
Unmetered	\$0	\$(4,051)	\$(4,051)
Streetlighting	\$0	\$(16,390)	\$(16,390)
TOTAL ⁴	\$67,785	\$424,027	\$491,812

Table 2, as updated below, provides a further breakdown and allocation of the commercial class into Hydro Ottawa's > 50 kW commercial classes. (In addition, the revisions presented below to Table 2, as originally submitted, are the result of changing the allocation to the relevant commercial kW. In preparing its updates to account for 2019 actuals, Hydro Ottawa noticed that Table 2, as originally submitted, had used the estimated Non RPP kW).

Table 2 – AS ORIGINALLY SUBMITTED – > 50 kW Commercial Allocation

	kW	Allocated %	Allocated \$
General Service 50 to 1,499 kW	5,288,918	68.9%	\$(33,797)
General Service 1,500 to 4,999 kW	1,422,314	18.5%	\$(9,089)
Large Use	966,207	12.6%	\$(6,174)
TOTAL ⁵	7,677,439	100%	\$(49,060)

³ Breakdown by interest and principal are summarized in Attachment 4-5-2(A): OEB Workform - 2014 LRAM VA Workform and Attachment 4-5-2(B): OEB Workform - 2014 Adjustments - LRAM VA Workform.

⁴ Totals may not sum due to rounding.

⁵ Ibid.



Table 2 – AS REVISED – > 50 kW Commercial Allocation

	kW	Allocated %	Allocated \$
General Service 50 to 1,499 kW	6,816,104	72.6%	\$(35,623)
General Service 1,500 to 4,999 kW	1,518,349	16.2%	\$(7,935)
Large Use	1,052,899	11.2%	\$(5,503)
TOTAL ⁶	9,387,352	100%	\$(49,061)

Table 2 – UPDATED FOR 2019 ACTUALS – > 50 kW Commercial Allocation

	kW	Allocated %	Allocated \$
General Service 50 to 1,499 kW	6,702,839	73.3%	\$(35,981)
General Service 1,500 to 4,999 kW	1,429,266	15.6%	\$(7,672)
Large Use	1,007,309	11.0%	\$(5,407)
TOTAL ⁷	9,139,414	100%	\$(49,061)

For 2014, Hydro Ottawa does not have customer level data to allocate savings to the > 50 kW customer classes. The utility has continued to use the same methodology for disposing of LRAM claims for the 2014 Report as was used for the 2011-2013 reports. Hydro Ottawa confirms that, for years after 2014, customer level data will be used to allocate savings to customer classes.

Table 3 below presents a summary of the Lost Revenue being claimed by Hydro Ottawa for the 2014-2016 years by rate class and by year.

⁷ Ibid.

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

⁶ Ibid.



Table 3 – Lost Revenue by Year by Rate Class 2014-2016

	2014	2015	2016	Total
Residential	\$312,463	\$757,287	\$783,443	\$1,853,194
GS< 50 kW	\$248,850	\$424,600	\$148,643	\$822,093
General Service 50 to 1,499 kW	\$(35,981)	\$143,676	\$(342,987)	\$(235,293)
General Service 1,500 to 4,999 kW	\$(7,672)	\$60,292	\$91,021	\$143,641
Large Use	\$(5,407)	\$20,538	\$141,742	\$156,872
Unmetered	\$(4,051)	\$0	\$0	\$(4,051)
Streetlighting	\$(16,390)	\$0	\$13,285	\$(3,104)
TOTAL ⁸	\$ 491,812	\$ 1,406,393	\$ 835,147	\$ 2,733,351

CDM programs/initiatives by rate class indicating the energy savings (kWh) and peak demand (kW) savings assigned to the programs/initiatives are available in Attachment 4-5-2:(A) OEB Workform - 2014 LRAM VA Workform and Attachment 4-5-2(B): OEB Workform - 2014 Adjustments - LRAM VA Workform, as well as the Attachments listed in section 2 above for 2015 and 2016 LRAM calculations. For descriptions of these initiatives, please see the following IESO annual reports appended to this Schedule:

- Attachment 4-5-1(A): IESO Final Verified 2014 CDM Report
- Attachment 4-5-1(B): IESO Final Verified 2015 CDM Summary Report
- Attachment 4-5-1(C): IESO Final Verified 2016 CDM Summary Report
- Attachment 4-5-1(D): IESO Final Verified 2017 CDM Summary Report

4. OEB-APPROVED PROGRAMS

Hydro Ottawa did not undertake any OEB-approved CDM programs since 2014. All CDM programs were IESO-funded. Thus, as per section 6.1.1 of the Conservation and Demand Management Code, no separate third-party independent verification is required.⁹

⁸ Totals may not sum due to rounding.

⁹ Ontario Energy Board, Conservation and Demand Management Code for Electricity Distributors (September 16, 2010), page 14.



Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 4.0 (2020)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	Tables 1-a and 1-b provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	Tables A-1 and A-2 include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	Tables 2-a, 2-b and 2-c include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	Tables 3-a and 3-b include the distribution rates that are used to calculate lost revenues.
3-a. Rate Class Allocations	A blank spreadsheet is provided to allow LDCs to populate distributor specific rate class percentages to allocate actual CDM savings to different customer classes.
4. 2011-2014 LRAM	Tables 4-a, 4-b, 4-c and 4-d include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	Tables 5-a, 5-b, 5-c and 5-d include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	Table 6-b includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Report	A blank spreadsheet is provided to allow LDCs to populate with CDM savings persistence data provided by the IESO.
8. Streetlighting	A blank spreadsheet is provided to allow LDCs to populate data on streetlighting projects whose savings were not provided by the IESO in the CDM Final Results Report (i.e., streetlighting projects).

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

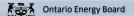


LRAMVA Work Form: Instructions

Version 4.0 (2020)

Tab	Instructions
LRAMVA Checklist/Schematic Tab	The LRAMVA work form was created in a generic manner for use by all LDCs. There are some elements that are not applicable at this time (i.e. 2019 and 2020 related components) but have been included in an effort to avoid major updates in the future. Distributors should follow the checklist, which is referenced in this tab of the work form and listed below:
	o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a.
	o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form.
	o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved.
	o Include a copy of initiative-level persistence savings information that was verified by the IESO. Persistence information is available upon request from the IESO.
	o Apply the IESO verified savings adjustments to the year it relates to. For example, savings adjustments to 2015 programs will be provided to LDCs with the 2016 Final Results Report. The 2015 savings adjustments should be included in the 2015 verified savings portion of the work form.
	o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable.
	o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a.
Tab 1. LRAMVA Summary	Distributors are required to report any past approved LRAMVA amounts along with the current LRAMVA amount requested for approval. There are separate tables indicating new lost revenues and carrying charges amounts by year and the totals for rate rider calculations.
Tab 1-a. Summary of Changes	Distributors should list all significant changes and changes in assumptions in the generic work form affecting the LRAMVA.
Tab 2. LRAMVA Threshold	Distributors should use the tables to display the LRAMVA threshold amounts as approved at a rate class level. This should be taken from the LDC's most recently approved cost of service application.
Tab 3. Distribution Rates	Distributors should complete the tables with rate class specific distribution rates and adjustments as applicable.
Tab 3-a. Rate Class Allocations	A tab is provided to allow LDCs to include documentation or analysis on how rate class allocations for actual CDM savings were determined by customer class and program each year. The rate class allocations would support the LRAMVA rate class allocation figures used in Tabs 4 and 5.
Tabs 4 and 5 (2011-2020)	Distributors should complete the lost revenue calculation for 2011-2014 program years and 2015-2020 program years, as applicable, by undertaking the following:
	o Input or manually link the savings, adjustments and program savings persistence data from Tab 7 (Persistence Report) to Tabs 4 and 5. As noted earlier, persistence data is available upon request from the IESO.
	o Ensure that the IESO verified savings adjustments apply to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table.
	o Confirm the monthly multipliers applied to demand savings. If a different monthly multiplier is used than what was confirmed in the LRAMVA Report, provide rationale in Tab 1-a and highlight the new monthly multiplier that has been used.
	o Input the rate class allocations by program and year to allocate actual savings to customers. If a different allocation is proposed for adjustments, LDCs must provide the supporting rationale in Tab 1-a and highlight the change.
	o Provide assumptions about the year(s) in which persistence is captured in the load forecast via the "Notes" section of each table and adjust what is included in the LRAMVA totals, as appropriate.
Tab 6. Carrying Charges	Distributors are requested to calculate carrying charges based on the methodology provided in the work form. This includes updating Table 6 as new prescribed interest rates for deferral and variance accounts become available and entering any collected interest amounts into the "Amounts Cleared" row to calculate outstanding variances on carrying charges.
Tab 7. Persistence Report	Persistence savings report(s) provided by the IESO should be included for the relevant years in the LRAMVA work form. Tab 7 has been created consistently with the IESO's persistence report.
Tab 8. Streetlighting	A tab is provided to ensure LDCs include documentation or data to support projects whose program savings were not provided by the IESO (i.e., streetlighting projects).

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment C **UPDATED** May 5, 2020 Page 3 of 23



Legend

LRAMVA Work Form: **Checklist and Schematic**

Version 4.0 (2020)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA (\$) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Drop Down List (Blue) Important Checklist o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved o Include a copy of initiative-level persistence savings information that was verified by the IESO in Tab 7. Persistence information is available upon request from the IESO o Apply the IESO verified savings adjustments to the year it relates to. o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable

o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	lables 4-a to 4-d / 5-a to 5-t (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	Determined by the LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA (\$) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges (\$) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA (\$) by Rate Class	Tab "1. LRAMVA Summary"			



LDC Name

Previous LRAMVA Application (EB#) Application of Previous LRAMVA Claim

Period of LRAMVA Claimed in Previous Application

EB-2015-0004 2016 COS/IRM Application 2011-2013

B. Current LRAMVA Application Current LRAMVA Application (EB#) Application of Current LRAMVA Claim Period of New LRAMVA in this Application Period of Rate Recovery (# years)

Actual Lost Revenues (\$)

Carrying Charges (\$)

Forecast Lost Revenues (\$)

LRAMVA (\$) for Account 1568

EB-2019-0261 2021-2025 CIR 2014-2016 2,095,822

1,789,160

27,912

Table 1-a. LRAMVA Totals by Rate Class

Please input the customer rate classes applicable to the LDC and associated billing units (kWh or kW) in Table 1-a below. This will update all tables throughout the workform.

The LRAMWA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or FM Rate Generator Model. Please also ensure that the principal amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMWA claim. Column F of Table 1-a should include projectes carrying changes amounts as determined on a rate class basis for Table 1-b also.

NOTE: If the LDC has more than 14 customer classes in which CDM savings was allocated. LDCs must contact OEB staff to make adjust

Customer Class	Billing Unit	Principal (\$)	Carrying Charges (\$)	Total LRAMVA (\$)
Residential	kWh	\$232,191	\$21,134	\$253,324
GS<50 kW	kWh	\$195,541	\$17,798	\$213,339
Commercial 50 kW to Large Use	kW	-\$102,320	-\$9,313	-\$111,633
Unmetered Scattered Load	kWh	-\$3,719	-\$338	-\$4,057
Street Lighting	kW	-\$15,031	-\$1,368	-\$16,399
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
Total		\$306,662	\$27.912	\$334,574

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Description	LRAMVA Previously Claimed	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting										Total
		kWh	kWh	kW	kWh	kW	0	0	0	0	0	0	0	0	0	
2011 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2011 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2012 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2012 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2013 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2013 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2014 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2014 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2015 Actuals	п	\$752,329.56	\$342,394.31	\$1,001,098.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,095,822.22
2015 Forecast		(\$520,139.04)	(\$146,853.00)	(\$1,103,418.28)	(\$3,718.64)	(\$15,030.87)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,789,159.83)
Amount Cleared						L		<u> </u>	<u> </u>		l	l	·	<u> </u>	L	l
2016 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2016 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared			\$0.00	\$0.00					L			l	\$0.00			
2017 Actuals		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00
2017 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared			\$0.00					L	L	\$0.00	\$0.00	l	\$0.00	L	L	
2018 Actuals		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00		\$0.00	\$0.00	\$0.00
2018 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared									ļ							
Carrying Charges		\$21,133.69	\$17,797.93	(\$9,313.03)	(\$338.47)	(\$1,368.09)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27,912.03
Total LRAMVA Balance		\$253,324	\$213,339	-\$111,633	-\$4,057	-\$16,399	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$334,574

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment C UPDATED May 5, 2020 Page 5 of 23



Legend User Inputs (Green)

Drop Down List (Blue)

Instructions (Grey)

Table A-1. Changes to Generic Assumptions in LRAMVA Work Form

Please document any changes in assumptions made to the generic inputs of the LRAMVA work form. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between current year savings and prior year savings adjustments; inclusion of additional adjustments affecting distribution rates; etc. All changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
				In order to have sumifs formulas work, as Persistence report used a slightly different description.
			to always be HVAC Incentives. Bolded changed items and added comment.	
1	7. Persistence Data	Row C and D		
2	7. Persistence Data	Row H	Correct one year	To balance to IESO report
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

Table A-2. Updates to LRAMVA Disposition

Please document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
etc.				



User Inputs (Green) Drop Down List (Blue) Auto Populated Cells (White) Instructions (Grey)

Table 2-a. LRAMVA Threshold

Please provide the LRAM/A threshold approved in the cost of service (COS) application, which is used as the comparator against actual sawings in the period of the LRAM/A threshold should generally be consistent with the annualized savings targets developed from Appendix 2-1. If a manual update is required to reflect a different allocation of forecast savings that was approved by the CEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
		kWh	kWh	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	29,390,965	22,228,164	6,993,000		169,801										
kW	322,951			319,193		3,758									
												•		•	
Summary		22228164	6993000	319193	169800.7857	3758	0	0	0	0	0	0	0	0	0

Years Included in Threshold

4 2011-2014

Table 2-b. LRAMVA Threshold

Please provide the LRAMIVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMIVA claim. The LRAMIVA threshold should generally be consistent with the annualized savings targets developed from Appendix 24. If a manual update is required to reflect a offerent allocation of forecast savings that was approved by the OEB, please note the changes and provide rationals for the change in Tab 1-a.

	Total	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
		kWh	kWh	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0														
kW	0														
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Source of Threshold 20XX Settlement Agreement, p. X

Table 2-c. Inputs for LRAMVA Thresholds

Table 2-c. imputs for Lowaria Timesholds

Please complied a Pole 2-below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option. The LRAMVA threshold values in Table 2-c will be auto-populated in Table 3-c will be auto-populated in Tabl

Year	LRAMVA Threshold	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
		kWh	kWh	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	2015	22,228,164	6,993,000	319,193	169,801	3,758	0	0	0	0	0	0	0	0	0
2016		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0



LRAMVA Work Form: Distribution Rates

Version 4.0 (2020)

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

Please complete Table 3 with the rate class specific distribution rates that pertain to the years of the LRAMVA disposition. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months entered in row 16 of each rate year starting from January to the start of the LDC's rate year. Please enter 0 in row 16, if the rate year begins on January 1. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas in Table 3-a accordingly.

	Billing Unit	EB-2009-XXXX	EB-2010-XXXX	EB-2011-XXXX	EB-2012-XXXX	EB-2013-0143	EB-2014-0085	EB-2015-XXXX	EB-2016-XXXX	EB-2017-XXXX	EB-2018-XXXX	EB-2019-XXXX	EB-2020-XXX
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)	1												
Period 2 (# months)	1	12	12	12	12	12	12	12	12	12	12	12	12
tesidential							\$ 0.0234						
Rate rider for tax sharing	1												
Rate rider for foregone revenue	kWh												
Other													
Adjusted rate	L	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0234		\$ -	\$ -	s -	\$ -	
Calendar year equivalent			\$ -	\$ -	\$ -	\$ -	\$ 0.0234	\$ -	\$ -	\$ -	\$ -	\$ -	
S<50 kW							\$ 0.0210						
ate rider for tax sharing													
Rate rider for foregone revenue	kWh												
Other													
djusted rate alendar year equivalent	L	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 0.0210 \$ 0.0210		\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	L
alciluai year equivalerii			-	-	• -	• -	φ 0.0210	• -	• -	• -	• -	-	
Commercial 50 kW to Large Use							\$ 3.4569						
ate rider for tax sharing	134												
Rate rider for foregone revenue Other	kW												
otner		\$ -	s -	\$ -	s -	\$ -	\$ 3.4569	\$ -	\$ -	\$ -	\$ -	\$ -	
Calendar year equivalent	L	-		\$ -	\$ -	\$ -	\$ 3.4569		\$ -	\$ -	\$ -	\$ -	
nmetered Scattered Load							\$ 0.0219						
Rate rider for tax sharing Rate rider for foregone revenue	kWh												
Other	KVVII		<u> </u>		 								
Adjusted rate		\$ -	s -	\$ -	s -	\$ -	\$ 0.0219	\$ -	s -	s -	s -	s -	-
Calendar year equivalent	L			\$ -	\$ -	\$ -	\$ 0.0219		\$ -	\$ -	\$ -	\$ -	
Street Lighting	Ι						\$ 3.9997			I			
Rate rider for tax sharing							0.0007						
Rate rider for foregone revenue	kW												
Other	1												
Adjusted rate	l	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.9997		\$ -	\$ -	\$ -	\$ -	
Calendar year equivalent			\$ -	\$ -	\$ -	\$ -	\$ 3.9997	\$ -	\$ -	\$ -	\$ -	\$ -	
,	I												
Rate rider for tax sharing													
Rate rider for foregone revenue	0												
Other													
Adjusted rate	L	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	S -	\$ -	L
Calendar year equivalent			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Rate rider for tax sharing													
Rate rider for foregone revenue	0									-			
Other Adjusted rate	-	\$ -	s -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	s -	\$ -	
Calendar year equivalent	L	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Rate rider for tax sharing	-												
Rate rider for tax snaring Rate rider for foregone revenue	0												
Other	1									-			
Adjusted rate		\$ -	s -	\$ -	s -	\$ -	\$ -	\$ -	\$ -	\$ -	s -	s -	
Calendar year equivalent		1 -		\$ -	s -	\$ -	\$ -	\$ -	S -	\$ -	S -	s -	

0																								
Rate rider for tax sharing																								
Rate rider for foregone revenue	0																							
Other	1					T T																		
Adjusted rate	i	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
Calendar year equivalent				\$	-	\$		\$	-		-	\$	-	\$		\$	-	\$	-		-	\$	-	
						,		-,-		,														
0										4														
Rate rider for tax sharing						ļ				1														
Rate rider for foregone revenue	0			ļ		ļ				4				<u> </u>										
Other										1														
Adjusted rate		\$		\$		\$	-		-		-	\$			-		-	\$	-	\$	-	\$	-	
Calendar year equivalent				\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
0	T					T		T						1										
Rate rider for tax sharing						1		+		1														
Rate rider for foregone revenue	0			 		1		+		+						1		1						
Other	-					-		+		+														
Adjusted rate	1	\$	-	\$	-	\$	-	\$	-	s		\$	-	S	-	\$	-	\$		\$	-	\$	-	
Calendar year equivalent				S		\$		\$				\$				\$				\$				
Odienda year equivalent				•		•		•		•		•		•		•		•		Ψ		•		
0																								
Rate rider for tax sharing																								
Rate rider for foregone revenue	0																							
Other	1			1																				
Adjusted rate		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
Calendar year equivalent				\$	-	\$	-	\$ \$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
0	T							т —								1								
Rate rider for tax sharing	-									+								-		-				
Rate rider for foregone revenue	0			-		+		+		+								<u> </u>						
Other				-				+																
Adjusted rate	-	\$	-	\$		\$	-	•		e		e		e	-	•		\$	-	e		\$	-	
Calendar year equivalent	<u> </u>	1.9		\$		\$		\$		S S		\$	<u>-</u>									\$		
Calendar year equivalent				Þ	-	Þ	-	Þ	-	Þ	-	Þ	-	Þ	-	Þ	-	•	-	Þ	-	Þ	-	
0				Γ.		Ι'		Т		1						1								
Rate rider for tax sharing	1							1																
Rate rider for foregone revenue	0							1		1						1			-					
Other	1							+		1														
Adjusted rate	1	\$		\$		\$		\$		\$		\$		\$	-	\$		\$	-	\$		\$	-	
Calendar year equivalent	L	1.7		S		\$	-		-			S				\$		\$		\$		\$		
odiorida your oquivalorit				•	-	•	_	•	_	•	-	*	_	•	_	•	_	•	_	*	_	*	_	

Note: LDC to make note of adjustments made to Table 3 to accommodate the LDC's specific circumstances

Table 3-a. Distribution Rates by Rate Class

Table 3-a below autopopulates the average distribution rates from Table 3. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used Please clear the rates related to the year(s) that are not part of the LRAMVA claim.

The distribution rates that remain in Table 3-a will be used in Tabs 4 and 5 of the work form to calculate actual and forecast lost revenues. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas from Table 3-a, as well as the distribution rate links in Tabs 4 and 5.

Year	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
	kWh	kWh	kW	kWh	kW	0	0	0	0	0	0	0	0	0
2011	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2012	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2013	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2014	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2015	\$0.0234	\$0.0210	\$3.4569	\$0.0219	\$3.9997	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2016	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2017	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2018	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Note: IDC to make note of the years re	amayad from this tak	do suboco dictribu	tion rates are not nort	of the LDAMAVA die	nocition									

Note: LDC to make note of the years removed from this table, whose distribution rates are not part of the LRAMVA disposition

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment C UPDATED May 5, 2020 Page 9 of 23



LRAMVA Work Form: Determination of Rate Class Allocations

Version 4.0 (2020)

Instructions

LDCs must clearly show how it has allocated actual CDM savings to applicable rate classes, including supporting documentation and rationale for its proposal. This should be shown by customer class and program each year.

This information is provided in UPDATED Exhibit 4-5-2: LRAM Variance Account

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment C UPDATED May 5, 2020 Page 10 of 23

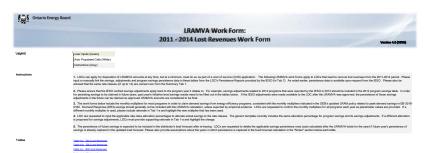
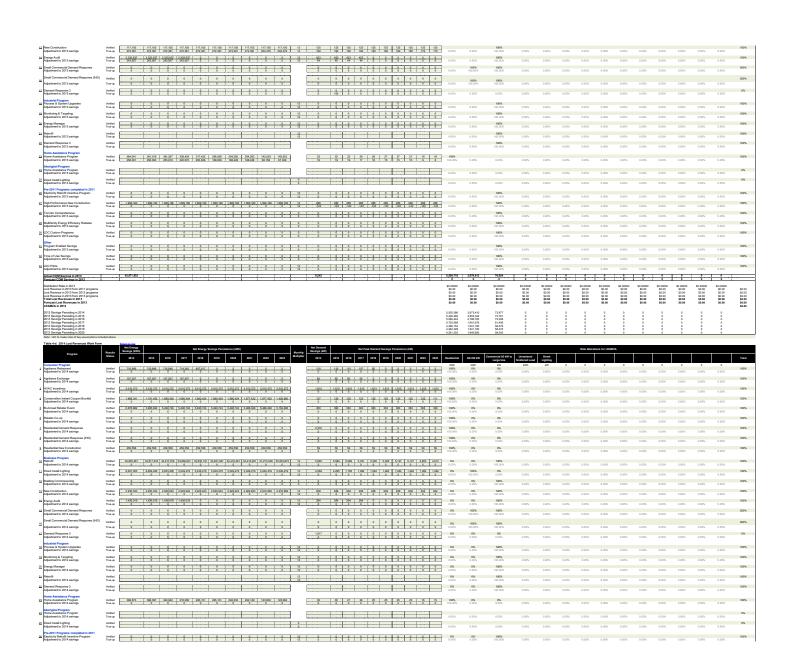


Table 4-a. 2011 Lost Revenues Work Form															
Program	Results Status	Not Energy Sevings (WH) Sevings (WH) Sevings (WH) Not Demand Sevings (WH) Not Demand Sevings (WH) Not Plak Demand Sevings (WH)						Rate Alloca	sions for LRAMV	Α		_			
Consumer Program	Status	2011 2012 2013 2014 2015 2014 2017 2018 2019 2019 2019 2010 Westplan 2011 2012 2013 2014 2015 2014 2017 2019 2020	Residential	GS-SO KW C	ommercial 50 kW to Large Use	Unmetered Street Scattered Load Lightin		Ļ							Total
Appliance Retirement Adjustment to 2011 savings	Verified True-up	1754 455 1754 455 1254 455 1267 283 1262 578 0	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%		0.00% 0.0		0.00%	0.00%	100%
Appliance Exchange Adjustment to 2011 savings	Verified True-up	22.765	100.00% 100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
HVAC Incentives Adjustment to 2011 savings	Verified True-up	\$485.411 \$48	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
Conservation Instant Coupon Booklet Adjustment to 2011 savings	Verified True-up	1,104,610 1,104,610 1,104,610 1,104,610 1,107,617 222,705 725,187 712,625 201,801 205,888 69 69 69 69 65 61 52 51 59 54 154,94 154,94 154,94 154,94 154,94 154,94 154,94 154,95 154,94 154,95 154,94 154,95 154,96 16,94 16,95 16,95 16,95 17,95 17,95 18,95	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
5 Bi-Armail Retailer Event Adjustment to 2011 savings	Verified True-up	1544-302 1544-302 1544-302 1544-302 1542-302		0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	100%
6 Retailer Co-op Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	100%
 Residential Demand Response Adjustment to 2011 savings 	Verified True-up	8286 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	100%
Residential Demand Response (PID) Adjustment to 2011 savings	Verified True-up		100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
Residential New Construction Adjustment to 2011 savings	Verified True-up		100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
Business Program 50 Retrofit Adjustment to 2011 savings	Verified True-up	15,402,256 15,40	0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	100%
11 Direct Install Lighting Adjustment to 2011 savings	Verified True-up	3870 653 3 3864 500 3 785 501 2 000 602 1 2 004 300 1 2 004 400 1 005 0 7 307 500 1 2 005 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0.00%	100.00% 100.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
12 Building Commissioning Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	100.00% 100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
13 New Construction Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
14 Energy Audit Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	9% 0.00%	0.00%	0.00%	100%
15 Small Commercial Demand Response Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	100.00% 100.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	200%
Small Commercial Demand Response (HD)	Verified True-up		0.00%	100.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2% 0.02%	0.00%	0.00%	200%
17 Demand Response 3 Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	0%
Industrial Program 19 Process & System Upgrades Adjustment to 2011 savings	Verified True-up		0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00% 0	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
19 Monitoring & Targeting Adjustment to 2011 savings	Verified True-up	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
20 Energy Manager Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
21 Retrofit Adjustment to 2011 savings	Verified True-up		0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
22 Demand Response 3 Adjustment to 2011 savings	Verified True-up		0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	100%
Home Assistance Program Home Assistance Program Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00% 100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	o. 0.00%	0.00%	0.00%	100%
Aboriginal Program 24 Home Assistance Program Adjustment to 2011 savinos	Verified True-up		0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	0%
Adjustment to 2011 savings 25 Direct Install Lighting Adjustment to 2011 savings	True-up Verified True-up		0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%		0.00% 0.0		0.00%	0.00%	0%
Adjustment to 2011 savings Pre-2011 Programs completed in 2011 26 Electricity Retrofit Incentive Program				0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
Adjustment to 2011 savings		4880.070 4880.070 4880.070 4890.070 4890.070 4890.070 4890.070 4890.070 4890.070 4890.070 12 204 204 204 205 205 204 204 205 205 205 205 205 205 205 205 205 205	0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	100%
27 High Performance New Construction Adjustment to 2011 savings 20 Toronto Comprehensive	Verified True-up Verified		0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%		0.00% 0.0		0.00%	0.00%	100%
Adjustment to 2011 savings 20 Multifamily Energy Efficiency Rebates	True-up Verified		0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	100%
Adjustment to 2011 savings	True-up Verfied		0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00% 0	0.00% 0.0	0.00%	0.00%	0.00%	100%
Adjustment to 2011 savings	True-up		0.00%	0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	
21 Program Enabled Savings Adjustment to 2011 savings	Verified True-up			0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
32 Time of Use Savings Adjustment to 2011 savings	Verified True-up			0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
20 LDC Pilots Adjustment to 2011 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	100.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	2% 0.00%	0.00%	0.00%	100%
Actual CDM Savings in 2011 Forecast CDM Savings in 2011		33,195,200	9,200,699	3,979,730	53,127 0	0 0					0				_
Charibution Rate in 2011 Loat Revenue in 2011 from 2011 programs Forecast Loat Revenues in 2011 LRAMVA in 2011			\$0.00000 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00	\$0.0000 \$0.000 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00	\$0,0000 \$0.00 \$0.00	\$0.00	1,00000 \$0.0 \$0.00 \$0 \$0.00 \$0	00 50.00	\$0.00000 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00
2011 Savings Persisting in 2012 2011 Savings Persisting in 2013 2011 Savings Persisting in 2014			9,192,433 9,192,433	3,973,377 3,894,438	53,127 53,127	0 0	8	8	0	0	8		0	8	
2011 Savings Persisting in 2015 2011 Savings Persisting in 2016			9,174,628 8,405,649 6,920,032	2,177,048 2,171,402 2,141,855	53,112 52,800 52,572	0 0	0	0	0	0		0	0	0	
2011 Savings Pensisting in 2017 2011 Savings Pensisting in 2018 2011 Savings Pensisting in 2019 2011 Savings Pensisting in 2020			6,332,266 6,321,471 6,797,182	409,655 406,427 406,427	52,224 51,876 48,324	0 0	0	0	0	0			0	0	
2011 Savings Persisting in 2020 Note: 100 to make note of key assumptions and			5,309,900	406,427	48,312	0 0									

Table 4-b. 2012 Lost Revenues Work For	m	Resent to cop		_												
Program	Results Status	Net Energy Savings (kWh) Net Energy Savings Persistence (kWh) Mo	Net Demand Savings (kW) Net Peak Demand Savings Paralitiance (kW)						Rate Alloc	ations for LRAMV	A					
	Status	2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 Mult	problem 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	Residential	GS+50 kW C	ommercial S0 kW to Large Use S	Unmetered St cattered Load Lig	reat tring								Total
Appliance Retirement Adjustment to 2012 savings	Verified True-up	1549,045 1,040,045 1,046,045 1,036,049 957,009 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 146 146 141 86 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00% 100.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.	W 0	0.00%	0.00%	0.00%	0.00%	0 0	ns 0.00%	0.00%	100%
Appliance Exchange Adjustment to 2012 savings	Verified True-up	43.987 43.987 43.987 42.564 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25 25 25 26 8 8 8 8 8 8	100.00% 100.00%	0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
HVAC Incentives Adjustment to 2012 sevings		2 055 00 2 055 00 1 2 055 00 2	1600 1500 1500 1500 1500 1500 1500 1500		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
 Conservation Instant Coupon Booklet Adjustment to 2012 savings 		78.235 78.235 78.235 78.235 78.235 77.000 37.000 30.007 36	13 12 13 13 13 13 14 11 11 11 11 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
5 Si-Annual Retailer Event Adjustment to 2012 savings		1,466,537 1,466,537 1,466,537 1,466,537 (347,600 1,065,376 747,500 745,606 745,606 376,717 0 0 0 0 0 0 0 0 0 0	83 83 83 85 76 64 48 48 48 31 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
6 Retailer Co-op Adjustment to 2012 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0		0.00%	0.00%		0.00%	0.00%	0.00%			0.00% 0.0		0.00%	100%
Residential Demand Response Adjustment to 2012 savings Residential Demand Response (IHD)		55.84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7849 8 286 8 8 8 8 8 8 8 8		0.00%	0.00%		0.00%	0.00%	0.00%		0.00%	0.00% 0.0		0.00%	100%
Adjustment to 2012 savings	Verified True-up				0.00%	0.00% 0.00% 0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	100%
Residential New Construction Adjustment to 2012 savings Residence Program		0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	100.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	
Business Program 50 Retrofit Adjustment to 2012 savings	Verified True-up	22,540,482 22,388,167 21,957,038 21,036,988 21,513,912 16,340,112 18,955,923 18,955,923 18,558,408 13,634,300 3,463,202 3,463,202 3,388,513 3,387,871 3,387,871 3,148,962 3,144,388 3,114,388 3,018,200 2,770,446			0.00%	900.00% 100.00%	0.00% 0.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
11 Direct Install Lighting Adjustment to 2012 savings	Verified True-up	335.166 334.40 331.65 1870.60 1803.01 30785 80.762 30.765			100.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0		0.00%	100%
 Building Commissioning Adjustment to 2012 savings 	Verified True-up	0 0 0 0 0 0 0 0 0 0			0.00%	900.00% 100.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
13 New Construction Adjustment to 2012 savings	Verified True-up	16,176 15,178 16,176 16,076 16,176 16			0.00%	100.00% 100.00% 100.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
14 Energy Audit Adjustment to 2012 savings	Verified True-up	694.230 664.230 694.230 604.230 6 0 0 0 0 0 0 0 0 0 0 0 6 66.527 46.527 46.527 9 0 0 0 0 0 0 0 0			0.00%	100.00% 100.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	200%
5 Small Commercial Demand Response Adjustment to 2012 savings Small Commercial Demand Response (IHD)	Verified True-up Verified		8 8 8 8 8 8 8 8 8		100.00%	100.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	
Adjustment to 2012 savings	True-up			0.00%	100.00%	100.00% 100.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	200%
17 Demand Response 3 Adjustment to 2012 savings	Verified True-up	27,447 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	0%
Industrial Program B Process & System Upgrades Adjustment to 2012 savings	Verified True-up		12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00% 0.00%	0.00%	100.00% 100.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	PS 0.00%	0.00%	100%
10 Monitoring & Targeting Adjustment to 2012 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 12 0 0 0 0	0.00% 0.00%	0.00%	100.00% 100.00%	0.00% 0.0	10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
20 Energy Manager Adjustment to 2012 savings	Verified True-up				0.00%	100.00% 100.00%	0.00% 0.	10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
21 Retrofit Adjustment to 2012 savings	Verified True-up			0.00%	0.00%	100.00% 100.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
22 Demand Response 3 Adjustment to 2012 savings	Verified True-up			0.00% 0.00%	0.00%	100.00% 100.00%	0.00% 0.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
Home Assistance Program 23 Home Assistance Program Adjustment to 2012 savings	Verified True-up	319,766 316,766 319,766 319,766 319,766 319,766 319,766 319,766 127,662 156,438 0 0 0 0 0 0 0 0 0 0	26 26 28 28 28 28 28 16 44 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00% 100.00%	0.00%	0.00%	0.00% 0.	10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	n 0.00%	0.00%	100%
Aboriginal Program 24 Plome Assistance Program Adjustment to 2012 savings	Verified True-up			0.00%	0.00%	0.00%	0.00% 0.0	10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	0%
25 Direct Install Lighting Adjustment to 2012 savings	Verified True-up		*	0.00%	0.00%	0.00%		10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	n. 0.00%	0.00%	0%
Pre-2011 Programs completed in 2011	Verified True-up			0.00%	0.00%	100.00%										100%
Adjustment to 2012 savings 27 High Performance New Construction Adjustment to 2012 savings	True-up Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.00%	100.00%		0.00%	0.00%	0.00%			0.00% 0.0		0.00%	100%
Adjustment to 2012 savings 26 Toronto Comprehensive Adjustment to 2012 savings	True-up Verified True-up		2	0.00%	0.00%	100.00%		0.00%	0.00%	0.00%			0.00% 0.0		0.00%	100%
Adjustment to 2012 savings 20 Multifamily Energy Efficiency Rebales Adjustment to 2012 savings	True-up Verified True-up			-	0.00%	100.00%		10% 0.00%	0.00%	0.00%			0.00% 0.0		0.00%	100%
Adjustment to 2012 savings 10 LDC Custom Programs Adjustment to 2012 savings	Verified True-up				0.00%	100.00%		10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	n. 0.00%	0.00%	100%
Other Trogram Enabled Savings Adjustment to 2012 savings					0.00%	100.00%										100%
Adjustment to 2012 savings 32 Time of Use Savings Adjustment to 2012 savings	Verified True-up Verified True-up				0.00%	100.00%		0.00%	0.00%	0.00%			0.00% 0.0		0.00%	100%
Adjustment to 2012 savings 33 LDC Pilots Adjustment to 2012 savings					0.00% 0.00% 0.00%	100.00% 900.00% 100.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
Adjustment to 2012 savings Actual COM Savinos in 2012 Forecast COM Savinos in 2012		29.673.165	19,760	5,986,580	2.428.700	100.00% 84.512	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	N 0.00%	0.00%	
		·		50.00000	50,00000	\$0.00000	\$0,0000 \$0.0	0000 \$0.00000	\$0,00000	\$0,00000	\$0,00000 \$	E0.00000 S	100000 \$2.00	000 \$0.00000	\$0,00000	
Charbution Rate in 2012 Lost Revenue in 2012 from 2011 programs Lost Revenue in 2012 from 2012 programs Total Lost Revenues in 2012 Forecast Lost Revenues in 2012				\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$1 \$0.00 \$1 \$0.00 \$1 \$0.00 \$1	0000 \$0.00000 1.00 \$0.00 1.00 \$0.00 1.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0. \$0.00 \$0. \$0.00 \$0. \$0.00 \$0.	00 \$0.00 00 \$0.00 00 \$0.00 00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Forecast Lost Revenues in 2012 LRAMVA in 2012 2012 Savings Persisting in 2013 2012 Savings Persisting in 2014					3,427,674	83,924 82,316					0		0 0			\$0.00
2012 Savings Persisting in 2014 2012 Savings Persisting in 2015 2012 Savings Persisting in 2016 2012 Savings Persisting in 2017 2012 Savings Persisting in 2018 2012 Savings Persisting in 2018				5,930,689 5,930,689 5,925,370 5,350,903 4,441,520		82,316 81,176 79,191 70,333 69,478 60,478		0 0	0	0	0	0	0 0	0	0	
2012 Savings Pensisting in 2017 2012 Savings Pensisting in 2018 2012 Savings Pensisting in 2019				4,049,037 4,047,210	1,912,921 387,381 387,381 387,381	69,478 69,478		0 0	0	0	0	0	0 0		0	
2012 Savings Persisting in 2020 Note: LDC to make note of key assumptions in Table 4-c. 2013 Lost Revenues Work Fon	cluded above	Fertum 10 top						-								
Program	Results	Net Energy Net Energy Savings Persistence (AWh.) Savings (AWh.) Mo	Net Demand Savings (199) Net Peak Gernand Savings Persistence (WV)		1				Rate Alico	ations for LRAMV	Α				1	
	Results Status	2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 Made	Replier 2613 2014 2016 2016 2617 2618 2019 2020 2021 2622	Residential	GS+S0 kW C	ommercial S0 kW to Large Use	Unmetered St cattered Load Lig	rest ring								Total
Consumer Program Appliance Retirement Adjustment to 2013 savings	Verified True-up	681,753 681,753 681,753 679,753 622,165 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	954 164 164 162 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00% 100.00%	0.00%	0.00%	0.00% 0.00%	W 0	0.00%	0.00%	0.00%	0.00%	0 0	n. 0.00%	0.00%	100%
Appliance Exchange Adjustment to 2013 savings	Verified True-up	70,563 70,563 70,563 70,563 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 40 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00% 100.00%	0.00%	0.00%	0.00% 0.0	10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
2 HVAC Incentives Adjustment to 2013 savings	Verified True-up	2563.561 2363.661 2363.961 2.963.961 2.963.561 2.963.961 2.963.561	1,448 1,448 1,448 1,446		0.00%	0.00%	0.00% 0.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	m 0.00%	0.00%	100%
Conservation Instant Coupon Booket Adjustment to 2013 savings	Verified True-up	431,268 431,268 414,649 351,293 351,293 351,293 351,293 351,000 255,236 255,236 1,219 1,219 1,255 1,085 1,085 1,085 1,085 1,085 991 991	29 29 28 24 24 24 24 24 16 18 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00% 0.0	10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
5 Bi-Armail Retailer Event Adjustment to 2013 savings	Verified True-up	961,278 961,278 903,309 705,695 705,695 705,695 705,695 704,663 562,749 562,749 0 0 0 0 0 0 0 0 0 0 0 0 0	66 66 63 50 50 50 50 50 43 43 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	PS 0.00%	0.00%	100%
© Retailer Co-op Adjustment to 2013 savings	Verified True-up	8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8		0.00%	0.00%		0.00%		0.00%		0.00%	0.00% 0.0	ns 0.00%	0.00%	100%
 Residential Demand Response Adjustment to 2013 savings 			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	PK 0.00%	0.00%	100%
				100.00%	0.00%	0.00%	0.00%	10% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00	0.00%	0.00%	100%
Residential Demand Response (IHD) Adjustment to 2013 savings	Verified True-up				0.00%								0.00% 0.0	0.00%		
Residential New Construction Adjustment to 2013 savings	Verified True-up	16,548 16,549 16,549 16,549 16,548 16,548 16,549 15,546 16,549 16	2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0		0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0		0.00%	100%
	Verified True-up Verified True-up	16.548 16	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100.00% 100.00%			0.00% 0	0.00%	0.00%	0.00%				0.00%	0.00%	100%
Residential New Construction Adjustment to 2013 swings Dushness Program Redord Adjustment to 2013 swings Hospital Adjustment to 2013 swings Adjustment to 2013 swings	Verified True-up Verified True-up Verified True-up	1,500 1,50	2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 2 3 3 3 3	100.00% 100.00% 0.00%	0.00%	0.00% 900% 100.00%	0.00% 0						0.00% 0.0	0.00%		
Passidential New Construction Adjustment to 2013 savings Business Program Referti Adjustment to 2013 savings	Verified True-up Verified True-up Verified True-up	16.548 16	2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 2 3 3 3 3	100.00% 100.00% 0.00%	0.00%	0.00%	0.00% 0.00%						0.00% 0.0	0.00%		100%



Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 5
Schedule 2
Attachment C
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May 5, 2020
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																																	i
27 High Performance New Construction Adjustment to 2014 savings	Verified True-up		0 0	0	0	0	0		0	0 0						0 0		0 0	0.00%	0.00%	100.00% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
26 Toronto Comprehensive Adjustment to 2014 savings	Verified True-up		0 0	0	0	0	0	0	0	0 0		0	0		0		0	0 0	0.00%	0%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Multifamily Energy Efficiency Rebates Adjustment to 2014 savings	Verified True-up		0 0	0	0	0	0	0	0	0 0		0				0 0			0.00%	0%	100.00% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
LDC Custom Programs Adjustment to 2014 savings	Verified True-up				0			- 8										0 0		0.00%	100 00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Other 21 Program Enabled Savings Adjustment to 2014 savings	Verified True-up		0 0	0	0	0	0 0	0				0				0 0			5 0% 0.00%	0%	100% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
32 Time of Use Savings Adjustment to 2014 savings	Verified True-up		0 0	0	0	- 8	0	0								0 0		0 0		0%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
23 LDC Pliets Adjustment to 2014 savings	Verified True-up		0 0	0	0	0	0	9	0	0 0			0	0 0	0	0 0	0	0 0	0.00%	0%	100.00% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Actual CDM Savings in 2014 Forecast CDM Savings in 2014		61,	146,517								-	- 15	E40						13,427,979	8,627,666	81,883		0	0	0	- 0	0	0	0	0	0	0	
		61,	44,517									15,	540																	\$0.00000 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$3.00 \$3.00			\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

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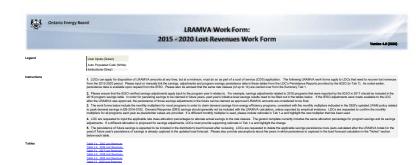


Table 5-a. 2015 Lost Revenues Work Form		Net Energy Savings (kW			Not Eng	nerry Sayle	ngs Pensistenc	a (MMs)				Net Demand Savings (kW)		Net De	ak Domano	d Savings Pe	relatence (k	×100								Pete Alloc	cations for LRAM	D/A						
Program	Results Status	Savings (kW	2016	2017			2020 2021		2023 2		tenthly ultiplier	Savings (kW)	2016 21	117 2018				022 2023	2024	Residential	G5×50 kW	Commercial 50 kW to Large	Unmetered Scattered Load	Street Lighting										Total
Legacy Framework		2015	2016	2017	2010	2013	2020 2021	2022	2023	2024		2015	2016 2	2016	2019	2020	2021	1022	2024	kWh	kWh	Use KW	Scattered Load kWh	KW.	0	۰	0			0	0	0	0	1011
Residential Program Coupon Initiative Adjustment to 2015 savings	Verified True-up		-	F		7					F			-					-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Bi-Annual Retailer Event Initiative Adjustment to 2015 savings	Verified True-up							-			Ē									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Appliance Ratinement Initiative Adjustment to 2015 savings	Verified True-up							+			E						-		H	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
HVAC Incentives Initiative Adjustment to 2015 savings	Verified True-up										Ē									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
5 Residential New Construction and Major Adjustment to 2015 savings	Verified True-up					Π					Ī									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Commercial & Institutional Program 5 Energy Audit Initiative	Verfied					_					12				_																			0%
Adjustment to 2015 savings 7 Efficiency: Equipment Replacement	True-up Verified	-	+=			\pm		+		+	12			-	-		_	_	<u> </u>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Incertive Initiative Adjustment to 2015 savings	True-up		#			#	#	÷			.12.			#			#	_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Direct Install Lighting and Water Heating Initiative Adjustment to 2015 savings	Verified True-up		-			\perp	-			-	12				<u> </u>		-		-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
New Construction and Major Renovation Initiative Adjustment to 2015 savings	Verified True-up					\Box	-1			1	12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Existing Building Commissioning Incentive initiative Adjustment to 2015 savings	Verified		\pm	i	\equiv	寸	Ħ	Ť.		Ť	3				Ť		Ť		Ť	0.00.0	V-90-76	V.00/4		2000	W-960-76	0.00.0		0.007	U.U.	U.W.A	0.0074	U-00-W	U-00-76	0%
	True-up		-	i.				1			3				1		_		t	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Industrial Program Process and Systems Upgrades Initiatives - Project Incentive Initiative Adjustment to 2015 savings	Verified True-up					\Box				-	12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Process and Systems Upgrades Initiatives - 12 Monitoring and Targeting Initiative	Verified		T	Ī	Πİ	Ť	Ŧ	T		Ť	12				Г	ΠÌ	Ť		Т															0%
Adjustment to 2015 savings	True-up		1			=				#	12						#			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Process and Systems Upgrades Initiatives - Energy Manager Initiative Adjustment to 2015 savings	Verified True-up									1	12				<u> </u>					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Low Income Program Low Income Initiative Adjustment to 2015 savings	Verified True-up			-		_				-	12				-			-	_	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Other	True-up Verified			-				_			.4. 1				_				-	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Aboriginal Conservation Program Adjustment to 2015 savings 55 Program Enabled Savings	Verified True-up Verified		#			=	=	+		÷	š				Ħ		#	-	Ħ	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings	True-up			i.			_::	1			<u>.</u>				<u> </u>		_		<u> </u>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Conservation Fund Pilots 27 Conservation Fund Pilot - EnerNOC Adjustment to 2015 sevings	Verified True-up					\exists		-		-E	12 12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Loblans Pilot Adjustment to 2015 savings	Verified True-up					\pm	-	+	ш	-	12		\vdash				=	=		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
19 Conservation Fund Pilot - SEG Adjustment to 2015 savings	Verified True-up					\equiv				士:	12						=	\equiv		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
20 Social Benchmarking Pliot Adjustment to 2015 savings	Verified True-up			E		\equiv	H			-E	12.						-1			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation First Framework Residential Province-Wide Programs 21. Save on Energy Coupon Program Adjustment to 2015 savings	Verified							_																										0%
	True-up Verified		F	ī		4	===	F			E			Ŧ	H		-	\pm	H	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
22. Save on Energy Heating and Cooling Program Adjustment to 2015 savings	True-up		1			=	#				ŀ						#			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23 Save on Energy New Construction Program Adjustment to 2015 savings	Verified True-up		<u> </u>			\perp					Ŀ				L				<u> </u>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
24 Save on Energy Home Assistance Program Adjustment to 2015 savings	Verified True-up		1														-			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings Non-Residential Province-Wide Programs 25 Save on Energy Audit Funding Program	True-up Verified			_							L				_				-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25 Save on Energy Audit Funding Program Adjustment to 2015 savings 25 Save on Energy Retrofit Program	Verified True-up Verified					=	#			#	12				H		-	-	<u> </u>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings	True-up		丰			=	#	+		#	12				H		#	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Program Adjustment to 2015 savings	Verified True-up		1			\pm					12				<u> </u>		_			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
28 Save on Energy High Performance New Construction Program Adjustment to 2015 savings	Verified True-up					\Box					12						-			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
20 Save on Energy Existing Building	Verfied		Ť	Ì		十	Ť	Ť			3				Ť		Ť		Ť	0.00.0			U.M. N	2000	W. 400 /W	0.00.0		0.00%	0.00 %	0.00%	0.0074			0%
Commissioning Program Adjustment to 2015 savings	True-up			1		_		1		_	3				_	_			1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

RAMVA in 2011 115 Savings Persisting in 2016 115 Savings Persisting in 2017 15 Savings Persisting in 2018 15 Savings Persisting in 2019																					0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$300
stribution Rate in 2015 at Revenue in 2015 from 2011 programs at Revenue in 2015 from 2012 programs at Revenue in 2015 from 2012 programs at Revenue in 2015 from 2013 programs at Revenue in 2015 from 2014 programs at Revenue in 2015 from 2015 programs at Revenue in 2015 from 2015 programs real Lost Revenues in 2015 reversat Lost Revenues in 2015																					\$0.02340 \$196,622.20 \$138,653.65 \$127,068.07 \$289,915.65 \$0.00 \$752,329.96 \$520,129.04	\$0.02100 \$45,599.44 \$40,327.12 \$75,670.23 \$180,797.52 \$0.00 \$342,394.31 \$146,653.00	\$0.00	\$0.02190 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$3,718.64	\$3.99970 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$15,030.67	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$424 \$455 \$457 \$752 \$2,66 \$1,78
justment to 2015 savings tual CDM Savings in 2015 recast CDM Savings in 2015	True-up			Ė	Ė	Ė	Ė	Ė	Ė	=	12.	-		Ť	Ï	İ		Ė		Ė	0.00% 0 22,228,164	0.00%	0.00%	0.00%	0.00% 0 3,758	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	王
ronto Hydro-Electric System Limited - P - Large (Pilot Savings)	Verified							T			12				I																				
ct Install - RTU Controls (Pilot Savings) stment to 2015 savings	Verified True-up			_	1	1		1		1	12				\perp			\vdash		-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
stment to 2015 savings nto Hydro-Electric System Limited - ct Install - RTU Controls (Pilot Savings)	True-up [_	\pm	+	÷	H	+	÷	+	H	12		=	-	÷	+	+	H		+	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
nto Hydro-Electric System Limited - t Install - Hydronic (Pilot Savings	Verified			T				T			12				T																				
ille Hydro Electricity Distribution Inc t Install - RTU Controls stment to 2015 savings	Verified True-up				H			I	-		12				\perp						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
t Install - Hydronic stment to 2015 savings	Verified True-up			+	+	1		1		<u> </u>	12				_		1				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
ultural Sector tment to 2015 savings	True-up		#	#	Ė			#			12			#	#		#	Ħ		±	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
ara-on-the-Lake Hydro Inc Direct Il Energy Efficiency Messures for the	Verified			T	Г	T		T			12			T	T	1	T																		
ener-Wilmot Hydro Inc Pilot - DCKV Iment to 2015 savings	Verified True-up			+	+	-	+	-	+	 	12	<u> </u>		_		_	-	\vdash		-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
tment to 2015 savings	True-up							1		<u> </u>					-					-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
tment to 2015 savings Ottawa Limited - Residential Demand mae Wi-Fi Thermostat Pilot	True-up Verified		Ŧ	T	H	Ħ		T	1		12			t	Ŧ		Ħ	H			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Ottawa Limited - Conservation se Regulation (CVR) Leveraging AMI Pilot	Verified					Π		Τ			12				T																				
n Utilities Corporation - Social marking Pilo ment to 2015 savings	Verified True-up							I			12										0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
n Utilities Corporation - ECM Furnace Pilot ment to 2015 savings	Verified True-up				<u> </u>	<u> </u>		1		<u> </u>	12						4	\vdash		1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
n Utilities Ltd Re-Invest Pilo Iment to 2015 savings on Utilities Corporation - ECM Furnace	Verified True-up							Ε			12										0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
tment to 2015 savings	Verified True-up		-	+	±:	 		1		1	12				_					-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
am - Conservation Func Iment to 2015 savings n Utilities Ltd Building Optimization	True-up			=	÷	#		=		븓	12		#	-	#		#	H		#	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Programs ource Hydro Mississauga Inc rmance-Based Conservation Pilot	Verified			Т	Ι.	T		Т	T	Ι	12				Т			1			7														
Benchmarking Local Program ment to 2015 savings	Verified True-up			Ξ	Е	Н		Ξ		Н	0				\pm		Н			Е	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
ation Conservation Local Program nent to 2015 savings	Verified True-up					H		Ε			0										0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
S. Regional Program: sa Refrigeration Local Program ment to 2015 savinas	Verified True-up			+				-		_					===					_	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
on Energy Energy Manager Program ment to 2015 savings	Verified True-up		==		Ė			÷	Ħ		12				÷			Ė	亩		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
on Energy Monitoring & Targeting sam atment to 2015 savings	Verified True-up			I				T			12				I						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
on Energy Process & Systems des Program ment to 2015 savings	Verified True-up			_	\pm	1		1	\perp	1	12	<u> </u>			_		1	\perp		-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

Program cy Framework dential Program on Initiative timent to 2016 savings musal Robaler Event Initiative	Verified True-up	Net Energy Savings (kWh 2016			Not Energy	Savings Pers	sistence (kWh)				Not Demand																						
Program cy Framework dential Program on Initiative timent to 2016 savings musal Robaler Event Initiative	Verified	2016	2017	2018 2					_	Monthly	Savings (kW)			Not Peak Do	nand Saving	s Persistence	(kW)								Rate Alloc	ations for LRAI	MVA						
dential Program con Initiative itment to 2016 savings musil Retailer Event Initiativ					019 202	10 2021	2022 20	23 20	24 2025	Multiplier	2016	2017	2015	2019 200	10 2021	2022	2023 2024	2025	Residential	G5<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting										т
on Initiative atment to 2016 savings																			kWh	kWh	kW	kWh	kW		0	0		0			0	0	
					\pm			\pm		}		\Box			\pm		\pm	\blacksquare	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
minimi to 2010 samilys	Verified True-up			\perp	\pm			Е		-			\equiv		\pm		\pm		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Verified True-up			\pm	Ш					3					Ξ				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Verified True-up				\pm			Е		}					\pm		\pm		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Verified True-up				Н			E					\exists						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
mercial & Institutional Program by Audit Initiative Idment to 2016 savings	Verified True-up			-	:] :			Ε		12			Н		Η:				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
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	Verified True-up			\perp	1			\blacksquare		12			\blacksquare						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Verified True-up									12			\Box						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
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ess and Systems Upgrades Initiatives -	True-up [-	÷	+			\pm	+	12		\vdash	十	-	+-		-	H	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	True-up			\perp		-		\pm		12			_		1				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Verified True-up									12					1				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Income Program Income Initiative	Verified True-up									12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

	18 Savinga Persiating in 2011 18 Savinga Persiating in 2015 18 Savinga Persiating in 2015 18 Savinga Persiating in 2025 te: LDC to make note of key assumptions inclu-																				0	0	0	0 0 0	0 0 0	0	0	0 0	0	0 0	0	0	0	0 0	
Control Cont																					\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
The content of the	al CDM Savinos in 2016 least CDM Savings in 2016			+	$\pm $	\vdash	_	=+=	Ŧ	#				Ħ	- T		+-7	-	+	\vdash	50,00000	50,00000	50,00000	50,00000	50,00000	50,00000	samme	50,00000	50,0000	50,00000	50,00000	50,00000	50,00000		土
The content of the	arce (Pliot Savings) ment to 2016 savings			_	<u>+</u>		_	=		_		12	<u></u>	<u> </u>	_			=±	_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	-
The state of the	nent to 2016 savings	True-up		#				#	=	#		.12.			=	#	Ħ	#	#	텉	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The state of the	Hydro-Electric System Limited -			Ŧ	†			Ť	+	T		12			T			十	T	Ħ	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The content of the		Verified		Ī			Ī	T	Ī	Ī		12						Ī	Ī		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
The content of the	Hydro Electricity Distribution Inc stall - RTU Controls ent to 2016 savings							\blacksquare													0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Column	nyaro exemply cristribution Inc stall - Hydronic ant to 2016 savings	Verified True-up		-				-		+								-	+	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The content of the	ral Sector int to 2016 savings			÷			=	#	#	#	-				=			#	#	벋	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The content of the				T	Ī		Ŧ	T	T	Ŧ	ī	12			T	T		Ŧ	T																
Control Cont	er-Wilmot Hydro Inc Pilot - DCKV ent to 2016 savings							\blacksquare				12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The content of the	sent to 2016 savings			#			=	_	#	_								=±	\pm	Ш	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The content of the			-	Ŧ			_	÷	÷	Ŧ	+	12.	=		-		+	#	÷	Ħ	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0%	0.00%	0.0%	0.00%	0.00%	0.00%	0.0%	
State Stat	.ttawa Limited - Conservation Regulation (CVR) Leveraging AMI lot											12																							
The state of the	marking Pilot ment to 2016 savings			#			_	=		#	_	12						#	\pm		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Part Part		True-up		÷			#	#	#	#		12			=			#	#	벋	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Part Part	sent to 2016 savings s Utilities Corporation - ECM Furnace			Η			=	T	Ŧ	F	+						f	7	Ŧ		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The control of the	sent to 2016 savings Utilities Ltd Re-Invest Pilo											12																							
Control Cont		Verified	-	+	T			Ť	+	\pm					T			十	\pm	\Box															
Control Cont	roe Hydro Mississauga Inc ance-Based Conservation Pilot 1 - Conservation Fund																				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
The state of the		True-up																			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The state of the												0						=			0.00%							0.00%	0.00%		0.00%				
Company Comp				÷	+		=	#	+	#		0			=			#	+	Ħ	0.00%							0.00%	0.00%		0.00%				
Company Comp	Regional Programs																																		
State Control Contro	Energy Energy Manager Program	Verified		T			I	T	Ī	Ī								Ī	T																
State Control Contro	Energy Monitoring & Targeting ant to 2016 savings							\blacksquare										_].			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The state of the	n Energy Process & Systems es Program sent to 2016 savings	Verified True-up		-				_		\pm		12						_	_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The state of the	nent to 2016 savings	True-up		#	<u> </u>			#	#	#					=			=	#	ш	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
March Marc	ment to 2016 savings n Energy Existing Building	True-up		Ħ			-	#	H	#	-	.12.			=		H	#	+	Ħ	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The color of the	on Energy High Performance New	Verified	==	Ŧ	÷		-	÷	÷	+	-	12			=		+	Ŧ	÷	Ħ			0.00%				0.00%	0.00%	0.00%	0.00%					
The state of the		Verified		T			I	Ţ	I	丁	Ŧ							Ţ	Ŧ	口								0.000	0.555						
The control of the	on Energy Retrofit Program ment to 2016 savings							Ė		Ė					Ħ	i	Ė	蒀	Ē	E															
The control of the	tesidential Province-Wide Program on Energy Audit Funding Program ment to 2016 savinces	Verified True-up						-		F		12						-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The control of the	tment to 2016 savings							I													0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The color of the	tment to 2016 savings	True-up		#			_	_	_	_				Ⴞ			ш	<u></u>	_	Ш	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The control of the	im ment to 2016 savings on Energy New Construction Program			#				#	#	#					=		#	#	+	Ħ	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The control of the	on Engage Marting and Conting			÷	÷		-	÷	÷	÷	+			H	=†	\pm	+-	=	÷	H	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
The control of the	intial Province-Wide Program	Verified																																	
Finded George The region of t		Verified True-up						I		E		12.						\equiv			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Control Cont		Verified True-up		#				Ŧ				12			\equiv						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Finder Sorge Vinder												12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Finder Sorge Vinder	rvation Fund Piloti vation Fund Pilot - EnerNOC ment to 2016 services	Verified Transp		_			-	-	_	_		12			-		-	_	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	m Enabled Savings nent to 2016 savings																																		

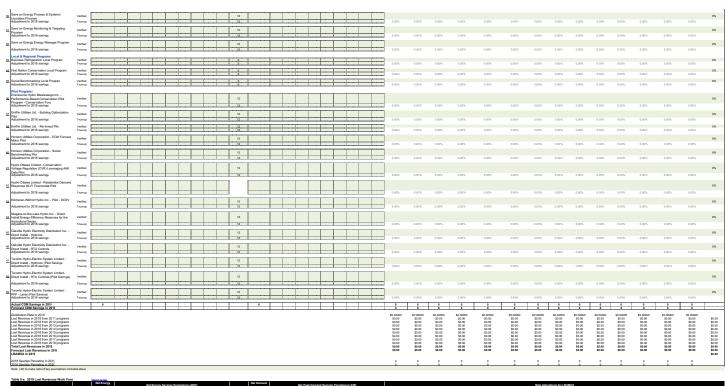
Table 5-c. 2017 Lost Revenues Work Forn		Exturn to too																													
		Net Energy Savings (kWh)			Net Ene	rgy Savings	Persistence	(kWh)			Not D Saving	mand s (kW)		Not Pea	k Demand !	Savings Pe	eralatence	(kW)								Rate Al	locations for LR	AMVA			
Program	Results Status	2017	2018	2019 20	020	2021 202	2 2023	2024	2025	Mor Mult	ller 20	17 20	15 2019	2020	2021	2022	2023	2024 202	5 2020	Residen	nal GS	≺50 kW	commercial 50 Unmetered kW to Large Use Scattered Lo	Stree	et Lighting						Total

Legacy Framework													kWh	kWh	ĸW	kWh	xw	0	۰		0	0	0	0	0	0	
Legacy Framework Residential Program Doupon Initiative Adjustment to 2017 savings	Verified True-up	=					l F		-				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Bi-Annual Retailer Event Initiative Adjustment to 2017 savings	Verified True-up		-	Ŧ		-	}				Ŧ		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Appliance Retirement Initiative Adjustment to 2017 savings	Verified True-up			Ŧ			1						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
HVAC Incentives Initiative Adjustment to 2017 savings	Verified True-up			Ť.				=i=			Ė		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential New Construction and Major	Verified	\pm				_	1 [-			_		0.00 %	0.00 //	0.00%	0.00%	0.00.4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Renovation Initiative Adjustment to 2017 savings	True-up						i t						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Commercial & Institutional Program Energy Audit initiative Adjustment to 2017 savings	Verified True-up	=					12		-				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Z Efficiency: Equipment Replacement Incentive Initiative Adjustment to 2017 savings	Verified			Ť			12																				0%
Adjustment to 2017 savings Direct Install Lighting and Water Heating	True-up Verified	1		4			12	=			=		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2017 savings	Verified True-up						12		-				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
New Construction and Major Renovation Initiative Adjustment to 2017 savings	Verified			T			12																				0%
Adjustment to 2017 savings Existing Building Commissioning Incentive	True-up Verified			_		_	3		_				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
to Existing Building Commissioning Incentive Initiative Adjustment to 2017 savings	True-up					-	3		+:				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Industrial Program Process and Systems Upgrades Initiatives -	Verified						12																				0%
Process and Systems Upgrades Initiatives - Project Incentive Initiative Adjustment to 2017 savings Process and Systems Upgrades Initiatives -	True-up			#			12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Process and Systems Upgrades Inflatives - 12 Monitoring and Targeting Initiative Adjustment to 2017 serings	Verified True-up						12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2017 savings Process and Systems Upgrades Initiatives - Energy Manager Initiative Adjustment to 2017 savings	True-up Verified		=	+		+	12	-	-		-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	True-up			==			12				_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Low Income Program Low Income Initiative Adjustment to 2017 savings	Verified True-up						12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
																											0%
Other Aboriginal Conservation Program Adjustment to 2017 savings 15. Program Enabled Savings	Verified True-up			-	-	-	0				-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
16 Program Enabled Savings Adjustment to 2017 savings	Verified True-up						0				=		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	UN
Conservation Fund Pilots T Conservation Fund Pilot - EnerNOC Adjustment to 2017 savings	Verified True-up	\equiv		Ŧ			12	===			-] = :		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
In Lobiava Pilot Adjustment to 2017 savings	Verified True-up	Ŧ		Ŧ			12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
10 Conservation Fund Pliot - SEG Adjustment to 2017 savings	Verified True-up						12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
20 Social Benchmarking Plot Adjustment to 2017 savings	Verified True-up						12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation First Framework	Павчар	 								-			0.00%	0.00 //	0.00%	0.00%	0.00.0	0.00%	0.00%	0.00%	0.00%	0.00.0	0.00%	0.00%	0.00%	0.00%	
21 Save on Energy Coupon Program Adjustment to 2017 savings	Verified True-up	\equiv		Ŧ			1				- 11		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
22 Save on Energy Heating and Cooling Program Artistment to 2017 sessions	Verified			Т			1 [0%
Adjustment to 2017 savings Save on Energy New Construction Program	True-up Verified] [0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2017 savings	Verified True-up		\rightarrow					_					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
24 Save on Energy Home Assistance Program Adjustment to 2017 savings	Verified True-up												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Non-Residential Province-Wide Program Save on Energy Audit Funding Program Adjustment to 2017 savings														0.00 //	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Verified True-up						12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25. Save on Energy Retroft Program Adjustment to 2017 savings	Verified True-up						12				_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
27. Save on Energy Small Business Lighting Program Adjustment to 2017 savings	Verified True-up	 	\rightarrow			_	12	_					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
28 Save on Energy High Performance New Construction Program Adjustment to 2017 savings	Verified	T		T			12	T																			0%
Adjustment to 2017 savings Bave on Energy Existing Building	True-up			-		-	12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22 Save on Energy Existing Building Commissioning Program Adjustment to 2017 savings	Verified True-up						3		\perp				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
30 Save on Energy Process & Systems Uporades Procesm Adjustment to 2017 savinos	Verified True-up	\Box		1			12				1		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25 Save on Energy Monitoring & Targeting Program Adjustment to 2017 savings	Verified		$\pm\pm\pm$	Ť			12	-	_		_			2007		2007				0.00%	0.00%	2007	0.00%	2007	2.00 /4	V.W.W	0%
Adjustment to 2017 savings	True-up		##	#		1	12	=			#	=	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32 Save on Energy Energy Manager Program Adjustment to 2017 savings	Verified True-up	\perp					12				-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Local & Regional Programs SS Business Refrigeration Local Program Adjustment to 2017 savings	Verified True-up																										0%
Adjustment to 2017 savings Eirst Nation Conservation Local Program Adjustment to 2017 savings	True-up Verified True-up						0						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2017 savings Social Benchmarking Local Program Adjustment to 2017 savings											#		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Verified True-up						0						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Pilot Programs Emersource Hydro Mississauga Inc Emersource Hydro Mississauga Inc Performanci-Based Conservation Pilot Program - Conservation Func Adjustment to 2017 savings	Verified	ТТ		T			12	T			T																0%
Program - Conservation Func Adjustment to 2017 savings	True-up	##		#		-	12.	=			=		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37 EnWin Utilities Ltd Building Optimization Plact Adjustment to 2017 savings	Verified True-up			\pm			12				_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
35 EnWin Utilities Ltd Re-Invest Pilo Adjustment to 2017 savings	Verified True-up		-	Ŧ		-	12				Ŧ		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
30 Horizon Utilities Corporation - ECM Furnace Motor Pilot Adjustment to 2017 savings	Verified	\equiv		T			12																				0%
	True-up		===	4		4	12	=			4		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40 Horizon Utilities Corporation - Social Benchmarking Pilot Adjustment to 2017 savings	Verified True-up			-			12		-				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
				T			12				T																0%
	Verified																	0.00%		0.00%	0.00%		0.00%	0.00%		0.00%	
Hydro Ottawa Limited - Conservation 41 Voltage Regulation (CVR) Leveraging AMI Data Pilot Adjustment to 2017 savings	True-up						12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Hydro Ottawa Limited - Conservation 10 Vollage Regulation (CVR) Leveraging AMI Data Pilot Data Pilot Selipation to 2017 swings Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	True-up Verified						12						0.00%	0.00%								0.00%					0%
Hydro Ottawa Limited - Conservation 41 Voltage Regulation (CVR) Leveraging AMI Data Pilot Adjustment to 2017 savings	True-up Verified True-up						12						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%

Adjustment to 2017 savings	True-up							_:	12		Τ			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Niagara-on-the-Lake Hydro Inc Direct 44 Install Energy Efficiency Measures for the Assistant Soute	Verfied								12																			0%
Agricultural Sector Adjustment to 2017 savings	True-up			-1:					12			-: 1		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45 Oakville Hydro Electricity Distribution Inc Direct Install - Hydronic	Verfied								12																			0%
Adjustment to 2017 savings	True-up								12		1			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Oakville Hydro Electricity Distribution Inc Direct Install - RTU Controls Adjustment to 2017 servings	Verified True-up								12					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings Adjustment to 2017 savings	Verified True-up]		-			12					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Toronto Hydro-Electric System Limited - 45 Direct Install - RTU Controls (Pilot Savings)	Verfied								12																			0%
Adjustment to 2017 savings	True-up								12					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Toronto Hydro-Electric System Limited - PFP - Large (Plot Savings) Adjustment to 2017 savings	Verified True-up	 	+			_			12		I			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2011			$\overline{}$	_		_	_	_		0		_		0		0				0								
Forecast CDM Savings in 2011														0	ō			0	•	0		•		•		•		
Distribution Rate in 2017 Lost Revenues in 2017 from 2011 programs Lost Revenues in 2017 from 2012 programs Lost Revenues in 2017 from 2012 programs Lost Revenues in 2017 from 2013 programs Lost Revenues in 2017 from 2019 programs Lost Revenues in 2017 from 2019 programs Lost Revenues in 2017 from 2017 programs Lost Revenues in 2017 from 2017 programs Total Lost Revenues in 2017 Forecast Lost Revenues in 2011 LEASANYA Lost LEASANYA LOST LEASANYA														\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,0000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
2017 Savings Persisting in 2018 2017 Savings Persisting in 2016 2017 Savings Persisting in 2020														0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	

Table 5-d. 2018 Lost Revenues Work Form		Secondation Net Dentard Net Energy Savings Persistance (WH) Secondary Net Dentard Savings Persistance (WH) Secondary (WH) Second							ate Allocations	s for LRAWVA						
Program	Results Status	Monthly Notice of the Control of the	Residential	GS450 kW k	ommercial 50 (W to Large Use 5	Unmetered Straffered Load	reet Lighting									Total
Legacy Framework			kWh	xWh	Uma kW	kWh	kW		0				0			
Residential Program 1 Coupon Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.1	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Bi-Annual Retailer Event Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.1	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Appliance Retirement Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
HVAC Incentives Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%		0.00% 0.1	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential New Construction and Major Adjustment to 2018 servings	Verified True-up		0.00%	0.00%	0.00%	0.00%		0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Commercial & Institutional Progras Energy Audit Initiative Adjustment to 2018 savings	Verfied															0%
Adjustment to 2018 savings Efficiency: Equipment Replacement	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.1	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Incentive Initiative Adjustment to 2018 savings	True-up	12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Direct Install Lighting and Water Heating Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	10% 0	100% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
New Construction and Major Renovation	Verfied															0%
Adjustment to 2018 savings Existing Building Commissioning Incentive	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Industrial Program Process and Systems Upgrades Initiatives - Project Incentive Initiative Advantaged to 2018 septimes	Verified	2														0%
Adjustment to 2018 savings Process and Systems Upgrades Initiatives -	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.1	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12 Monitoring and Targeting Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.1	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	10% 0	100%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
13 Process and Systems Upgrades Initiatives - Energy Manager Initiative Adjustment to 2018 sevings Low Income Program	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14 Low Income Initiative Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.1	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Other S Aboriginal Conservation Program Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.1	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
15 Program Enabled Savings Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%		0.00% 0.		100% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation Fund Blight	Verified		0.007	0.00%		0.00%	0.00.4	0.00%			0.00%	0.00%	0.00%	0.00%	0.00%	0%
17 Conservation Fund Plot - EnerNOC Adjustment to 2018 savings 18 Lobiawa Pilot	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2016 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
10 Conservation Fund Pilot - SEG Adjustment to 2018 savings 20 Social Benchmarking Pilot	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation First Framework Residential Province-Wide Program 21 Save on Energy Coupon Program Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%			10% 0	1.00% 0.00%	0.00%	0.00%	0.00%			0%
	Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	10% 0	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
22 Save on Energy Heating and Cooling Program Adjustment to 2018 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23 Save on Energy New Construction Program Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.0	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
24 Save on Energy Home Assistance Program	Verified True-up		0.00%	0.00%	0.00%											0%
Adjustment to 2018 savings Non-Residential Province-Wide Program			0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25 Save on Energy Audit Funding Program Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25 Save on Energy Retrofit Program Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
27 Save on Energy Small Business Lighting Program Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25 Save on Energy High Performance New Construction Program Adjustment to 2018 savings	Verfied															0%
Save on Energy Existing Building	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29 Save on Energy Existing Building Commissioning Program Adjustment to 2018 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	10% 0	1.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%

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	Net Energy Savings (kWh)			Net Energy 5	Savings Per	ralatence (A	kWh)				t Demand rings (kW)		No	t Peak Deman	d Savings Pe	ralatence (k)	W)								Rate Alloc	ations for LRAA	AVA						
Program Results Status	2019	2020	2021 20	022 2023	2024	2025	2026	2027	Mor Multi	nthly tiplier	2019	2020	2021 20	2023	2024	2025 202	26 2027	2028	Residential	GS+50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting										
amework																			kWh	XWb	KW.	kWh	XW		_	0	-		0	0			
M Savings in 2011																				۰						۰			٠				\pm
DM Savings in 2011																					0					0			0		0		_
Natarin 2019 wai in 2019 from 2011 programs wai in 2019 from 2012 programs wai in 2019 from 2012 programs wai in 2019 from 2013 programs wai in 2019 from 2013 programs wai in 2019 from 2013 programs wai in 2019 from 2016 programs wai in 2019 from 2016 programs wai in 2019 from 2016 programs wai in 2019 from 2016 programs wai in 2019 from 2018 programs wai in 2019 from 2018 programs wai in 2019 from 2018 programs wai in 2019 from 2018 programs wai in 2019 from 2018 programs																			\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	

		Net Energy Savings (kWh)		Ni	et Energy	Savings Peri	alstence (kW	nto			Net Doma Savings (A			Not Pa	ak Demand	Savings Per	alstence (k	W)								Rate Allo	cations for LRA	AVM						
Program	Results Status	2020	2021	2022 2022	2024	2025	2026	2027 20	25 25	Monthly Multiplier	2020	2021	2022	2023	2024	2025 2	026 20	27 2025	2029			Use	SCHILLIES CORS	Street Lighting										,
Framework																				kWh	XWh	W.	kWh	XW	0		0			0	0	0		
CDM Savings in 2020																								0										
st CDM Savings in 2020													_						_															_
dion Rate in 2000 servana in 2020 from 2011 programs versus in 2020 from 2012 programs versus in 2020 from 2013 organis en 2020 from 2013 organis versus in 2020 from 2013 organis versus in 2020 from 2014 programs versus in 2020 from 2014 programs versus in 2020 from 2017 programs versus in 2020 from 2019 programs versus in 2020 from 2019 programs versus in 2020 from 2019 programs versus in 2020 from 2019 programs versus in 2020 from 2019 programs versus in 2020 from 2019 programs versus in 2020 from 2019 programs versus in 2020 from 2019 programs versus in 2020 from 2020 programs																				\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,	\$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	

Return to too



LRAMVA Work Form: Carrying Charges by Rate Class

Version 4.0 (2020)

Legend

User Inputs (Green)

Auto Populated Cells (White)

Instructions (Grey)

- 1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. Monthly interest rates are used to calculate the variance on the carrying charges for LRAMVA. Starting from column I, the principal will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rate from column H to determine the monthly variances on carrying charges for each rate class by year.
 - 2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.
 - 3. Please calculate the projected interest amounts in the LRAMVA work form. Project carrying charges amounts included in Table 6-a should be consistent with the projected interest amounts included in the DVA Continuity Schedule. If there are additional adjustments required to the formulas to calculate the projected interest amounts, please adjust the formulas in Table 6-a accordingly.

Table 6. Prescribed Interest Rates

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.50%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	2.17%
2019 Q1	2.45%
2019 Q2	2.18%
2019 Q3	2.18%
2019 Q4	2.18%
2020 Q1	2.18%
2020 Q2	2.18%
2020 Q3	2.18%
2020 Q4	2.18%

heck	OEB	webs	it

Feet 1				•															
Feb. 11 2011 G1 G1 G1 G1 G1 G2 G2	Month	Period	Quarter		Residential	GS<50 kW			Street Lighting										Total
Mart 2011 Cl 1 Cl 1 Cl 5																			\$0.00
April 2011 22 11 22 11 23 10 25 10 10 10 10 10 10 10 1																			\$0.00
Map																			
April 2011 02 0.7% 58.00 50.00 5																			
July 11 2011 Q3 Q7% \$80.0 \$90.0																			
Aug-11 2911 63 61794 50.00																			\$0.00
Col-11																			\$0.00
No. 11 2011 C4 0.17% 50.00	Sep-11	2011		0.12%	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			0 \$0.0	\$0.00	\$0.00
Dec-11 2011 C41 C12** S0.00																			\$0.00
Treat for 2011																			\$0.00
Prince P		2011	Q4	0.12%															
Commission State For 2012 1					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0	\$0.00	\$0.00
May 12					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0	\$0.00	\$0.00
Feb. 12 2011-2012 O1			Q1	0.12%															\$0.00
Apr-12 091-2012 02 0.12% 50.00 50.																			\$0.00
May-12 2011-2012 22 0.12% \$0.00 \$0																			\$0.00
																			\$0.00
14-12 2011-2012 C3																			
August 2																			
Sept 2 2011-2012 Q3 0.12% \$5.00 \$0.00																			\$0.00
No.12 2011-2012 O.4																			\$0.00
Dee-12 2011-2012 O4 0.12% \$5.00 \$5		2011-2012	Q4	0.12%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0 \$0.0	\$0.00	\$0.00
Total for 2012																			\$0.00
		2011-2012	Q4	0.12%															\$0.00
Departing Balances for 2013					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0 \$0.0	\$0.00	\$0.00
Jun-13 2011-2013 O1 0.12% S0.00 S0					60.00	60.00	\$0.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		60.00	60.00
Feb-13 2011-2013 C1 0.12% S0.00 S0			Q1	0.12%															\$0.00
Mart 3 2011-2013 C1 C12% S0.00 S0.																			\$0.00
May-13 2011-2013 Q2 0.12% \$0.00 \$0	Mar-13	2011-2013	Q1	0.12%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00	\$0.00	0 \$0.0	\$0.00	\$0.00
Jul-13 2011-2013 G2 0.12% S0.00 S0																			\$0.00
Juli-13 2011-2013 G3 0.12% S0.00 S																			\$0.00
August A																			
Sep-13 2011-2013 Q3 0.12% S0.00 S0																			
Cel-13 2011-2013 Cel Cel-12 C																			\$0.00
Dee:13 2011-2013 O4 0.12% S0.00 S0																			\$0.00
Total for 2013 \$0.00	Nov-13																		\$0.00
Amount Cleared		2011-2013	Q4	0.12%															\$0.00
Opening Balance for 2014 S0.00 S					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0 \$0.0	\$0.00	\$0.00
Jan-14 2011-2014 O1 0.12% \$0.00 \$0		oo fox 2014			60.00	***	60.00	60.00	60.00		***	60.00	80.00	60.00	60.00	60.0		60.00	60.00
Feb-14 2011-2014 01 0.12% \$0.00 \$0.0			01	0.12%															
Mari-14 2011-2014 01 0.12% \$0.00 \$																			\$0.00
April 2011-2014 Q2 0.12% \$0.00 \$0.																			\$0.00
Jul-14 2011-2014 Q2 0.12% \$0.00 \$0	Apr-14										\$0.00								\$0.00
Jul-14 2011-2014 Q3 0.12% \$0.00 <																			\$0.00
Aug-14 2011-2014 Q3 0.12% \$0.00 \$0																			\$0.00
Sep-14 2011-2014 G2 0.12% \$0.00 <																			\$0.00
Cel-14 2011-2014 O4 0.12% \$0.00 <																			
Nov-14 2011-2014 Q4 0.12% \$0.00 \$0.0																			\$0.00
Dec-14 2011-2014 Q4 0.12% \$0.00 \$0.0																			\$0.00
																			\$0.00
				-															

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Amount Cleared	
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| Opening Balance for 2015 | | | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Jan-15 2011-2015
Feb-15 2011-2015 | Q1
Q1 | 0.12%
0.12% | \$0.00
\$23.70 | \$0.00
\$19.96 | \$0.00
-\$10.45 | \$0.00
-\$0.38 | \$0.00
-\$1.53 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00 | \$0.00
\$31.31 |
| Mar-15 2011-2015 | Q1 | 0.12% | \$47.41 | \$39.92
 | -\$20.89 | -\$0.76 | -\$3.07
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$62.61 |
| Apr-15 2011-2015 | Q2 | 0.09% | \$53.21 | \$44.81
 | -\$23.45 | -\$0.85 | -\$3.44
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$70.28 |
| May-15 2011-2015 | Q2 | 0.09% | \$70.95 | \$59.75
 | -\$31.26 | -\$1.14 | -\$4.59
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$93.70 |
| Jun-15 2011-2015
Jul-15 2011-2015 | Q2
Q3 | 0.09% | \$88.68
\$106.42 | \$74.69
\$89.62 | -\$39.08
-\$46.90 | -\$1.42
-\$1.70 | -\$5.74
-\$6.89 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00 | \$117.13
\$140.55 |
| Aug-15 2011-2015 | Q3 | 0.09% | \$124.16 | \$104.56
 | -\$54.71 | -\$1.99 | -\$8.04
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$163.98 |
| Sep-15 2011-2015 | Q3 | 0.09% | \$141.89 | \$119.50
 | -\$62.53 | -\$2.27 | -\$9.19
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$187.40 |
| Oct-15 2011-2015 | Q4 | 0.09% | \$159.63 | \$134.43
 | -\$70.34 | -\$2.56 | -\$10.33
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$210.83 |
| Nov-15 2011-2015
Dec-15 2011-2015 | Q4
Q4 | 0.09% | \$177.37
\$195.10 | \$149.37
\$164.31
 | -\$78.16
-\$85.98 | -\$2.84
-\$3.12 | -\$11.48
-\$12.63
 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00
 | \$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$234.26
\$257.68 |
| Total for 2015 | Q4 | 0.0370 | \$1,188.53 |
 | -\$523.75 | -\$19.03 | -\$76.94
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$1,569.73 |
Amount Cleared			
 | | |
 | | |
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 | |
| Opening Balance for 2016
Jan-16 2011-2016 | Q1 | 0.09% | \$1,188.53
\$212.84 | \$1,000.93
\$179.25 | -\$523.75
-\$93.79 | -\$19.03
-\$3.41 | -\$76.94
-\$13.78 | \$0.00
\$0.00 | \$1,569.73
\$281.11 |
| Feb-16 2011-2016 | Q1 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
-\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Mar-16 2011-2016 | Q1 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Apr-16 2011-2016 | Q2 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| May-16 2011-2016
Jun-16 2011-2016 | Q2
Q2 | 0.09% | \$212.84
\$212.84 | \$179.25
\$179.25
 | -\$93.79
-\$93.79 | -\$3.41
-\$3.41 | -\$13.78
-\$13.78
 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00
 | \$0.00 | \$0.00
\$0.00 | \$0.00
 | \$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$281.11
\$281.11 |
| Jul-16 2011-2016 | Q3 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Aug-16 2011-2016 | Q3 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Sep-16 2011-2016 | Q3 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Oct-16 2011-2016
Nov-16 2011-2016 | Q4
Q4 | 0.09% | \$212.84
\$212.84 | \$179.25
\$179.25
 | -\$93.79
-\$93.79 | -\$3.41
-\$3.41 | -\$13.78
-\$13.78
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 | \$281.11
\$281.11 |
| Dec-16 2011-2016 | Q4 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41
-\$3.41 | -\$13.78
-\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Total for 2016 | | | \$3,742.62 | \$3,151.88
 | -\$1,649.27 | -\$59.94 | -\$242.28
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$4,943.01 |
| Amount Cleared | | | *** 740.00 | 60 454 00
 | 64.040.07 | | ******
 | | |
 | \$0.00 | \$0.00 | ***
 | | |
 | ****** |
| Opening Balance for 2017 Jan-17 2011-2017 | Q1 | 0.09% | \$3,742.62
\$212.84 | \$3,151.88
\$179.25
 | -\$1,649.27
-\$93.79 | -\$59.94
-\$3.41 | -\$242.28
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 | \$4,943.01
\$281.11 |
| Feb-17 2011-2017 | Q1 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Mar-17 2011-2017 | Q1 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Apr-17 2011-2017
May-17 2011-2017 | Q2
Q2 | 0.09% | \$212.84
\$212.84 | \$179.25
\$179.25 | -\$93.79
-\$93.79 | -\$3.41
-\$3.41 | -\$13.78
-\$13.78 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00 | \$281.11
\$281.11 |
| May-17 2011-2017
Jun-17 2011-2017 | Q2 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41
-\$3.41 | -\$13.78
-\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Jul-17 2011-2017 | Q3 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Aug-17 2011-2017 | Q3 | 0.09% | \$212.84 | \$179.25
 | -\$93.79 | -\$3.41 | -\$13.78
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$281.11 |
| Sep-17 2011-2017
Oct-17 2011-2017 | Q3
Q4 | 0.09% | \$212.84
\$290.24 | \$179.25
\$244.43 | -\$93.79
-\$127.90 | -\$3.41
-\$4.65 | -\$13.78
-\$18.79 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00 | \$281.11
\$383.33 |
| Nov-17 2011-2017 | Q4
Q4 | 0.13% | \$290.24 | \$244.43
 | -\$127.90 | -\$4.00
-\$4.65 | -\$18.79
-\$18.79
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$383.33 |
| Dec-17 2011-2017 | Q4 | 0.13% | \$290.24 | \$244.43
 | -\$127.90 | -\$4.65 | -\$18.79
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$383.33 |
| Total for 2017 | | | \$6,528.91 | \$5,498.38
 | -\$2,877.11 | -\$104.56 | -\$422.65
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$8,622.96 |
| Amount Cleared Opening Balance for 2018 | | | \$6,528,91 | \$5,498,38
 | -\$2,877.11 | -\$104.56 |
 | | |
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 | \$8,622.96 |
Jan-18 2011-2018			
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 | | |
 | \$0.00 | \$0.00 |
 | |
	Q1	0.13%	\$290.24	\$244.43	-\$127.90	-\$104.56 -\$4.65	-\$422.65 -\$18.79	\$0.00 \$0.00	\$383.33
Feb-18 2011-2018	Q1 Q1	0.13%	\$290.24	\$244.43 \$244.43	-\$127.90 -\$127.90	-\$4.65 -\$4.65	-\$18.79 -\$18.79	\$0.00 \$0.00	\$383.33 \$383.33
Mar-18 2011-2018	Q1 Q1	0.13% 0.13%	\$290.24 \$290.24	\$244.43 \$244.43 \$244.43	-\$127.90 -\$127.90 -\$127.90	-\$4.65 -\$4.65 -\$4.65	-\$18.79 -\$18.79 -\$18.79	\$0.00 \$0.00 \$0.00	\$383.33 \$383.33 \$383.33
Mar-18 2011-2018 Apr-18 2011-2018	Q1 Q1 Q2	0.13% 0.13% 0.16%	\$290.24 \$290.24 \$365.70	\$244.43 \$244.43 \$244.43 \$307.98	-\$127.90 -\$127.90 -\$127.90 -\$161.15	-\$4.65 -\$4.65 -\$4.65 -\$5.86	-\$18.79 -\$18.79 -\$18.79 -\$23.67	\$0.00 \$0.00 \$0.00 \$0.00	\$383.33 \$383.33 \$383.33 \$482.99
Mar-18 2011-2018	Q1 Q1	0.13% 0.13%	\$290.24 \$290.24	\$244.43 \$244.43 \$244.43	-\$127.90 -\$127.90 -\$127.90	-\$4.65 -\$4.65 -\$4.65	-\$18.79 -\$18.79 -\$18.79	\$0.00 \$0.00 \$0.00	\$383.33 \$383.33 \$383.33
Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018 Jun-18 2011-2018 Jul-18 2011-2018	Q1 Q1 Q2 Q2 Q2 Q2	0.13% 0.13% 0.16% 0.16% 0.16% 0.16%	\$290.24 \$290.24 \$365.70 \$365.70 \$365.70	\$244.43 \$244.43 \$244.43 \$307.98 \$307.98 \$307.98 \$307.98	-\$127.90 -\$127.90 -\$127.90 -\$161.15 -\$161.15 -\$161.15 -\$161.15	-\$4.65 -\$4.65 -\$4.65 -\$5.86 -\$5.86 -\$5.86	-\$18.79 -\$18.79 -\$18.79 -\$23.67 -\$23.67 -\$23.67 -\$23.67	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$383.33 \$383.33 \$383.33 \$482.99 \$482.99 \$482.99 \$482.99
Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018 Jun-18 2011-2018 Jul-18 2011-2018 Aug-18 2011-2018	Q1 Q1 Q2 Q2 Q2 Q2 Q3	0.13% 0.13% 0.16% 0.16% 0.16% 0.16% 0.16%	\$290.24 \$290.24 \$365.70 \$365.70 \$365.70 \$365.70 \$365.70	\$244.43 \$244.43 \$244.43 \$307.98 \$307.98 \$307.98 \$307.98					
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| Mar-18 2011-2018
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Jun-18 2011-2018
Jul-18 2011-2018 | Q1
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| Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018 Jun-18 2011-2018 Jul-18 2011-2018 Aug-18 2011-2018 Sep-18 2011-2018 Oct-18 2011-2018 Nov-18 2011-2018 | Q1
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| Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018 Jun-18 2011-2018 Jul-18 2011-2018 Aug-18 2011-2018 Cot-18 2011-2018 Nov-18 2011-2018 Dec-18 2011-2018 | Q1
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| Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018 Jun-18 2011-2018 Jul-18 2011-2018 Aug-18 2011-2018 Oct-18 2011-2018 Oct-18 2011-2018 Dec-18 2011-2018 Total for 2018 | Q1
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\$554.55 |
| Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018 Jun-18 2011-2018 Jun-18 2011-2018 Jun-18 2011-2018 Awg-18 2011-2018 Sep-18 2011-2018 Nev-18 2011-2018 Total for 2018 Amount Cleared Amount Cleared Opening Balance for 2019 | Q1
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Q4 | 0.13%
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Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 5
Schedule 2
Attachment C
UPDATED
May 5, 2020
Page 22 of 23

X-D-X	Ontario Energy Goard	
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Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment C **UPDATED** May 5, 2020 Page 23 of 23



LRAMVA Work Form: Documentation for Streetlighting Projects

Legend

User Inputs (Green)

Instructions

Please provide documentation and/or data to substantiate program savings that were not provided in the IESO's verified results reports (i.e., streetlighting projects).

Distributors are encouraged to provide data in the following format, and complete a separate set of following tables for each project. The tables below are meant to be an example. Distributors should complete the tables based on the actual project details. Please create the necessary links to Tab 4/5 and tabulations within this LRAMVA workform to calculate the LRAMVA amounts. Alternatively, LDCs may submit a separate attachment with the project level details or billed demand by type of bulb.

Table 8-a: Name of Muncipality

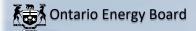
Summary of Project #1

	Actual los	t revenue base	d on kW billing	
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	a	ь	c	b * c
Jan 20xx	0.00			
Feb 20xx	0.00	0.00		
Mar 20xx				
Apr 20xx				
May 20xx				
June 20xx			T.,	
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Dec 20xx				
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Details of Project #1 (Month, Year)

Pre-conversion billing demand			
Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d	e	d*e
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Total	l		0.00

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
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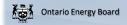
Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 4.0 (2020)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	Tables 1-a and 1-b provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	Tables A-1 and A-2 include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	Tables 2-a, 2-b and 2-c include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	Tables 3-a and 3-b include the distribution rates that are used to calculate lost revenues.
3-a. Rate Class Allocations	A blank spreadsheet is provided to allow LDCs to populate distributor specific rate class percentages to allocate actual CDM savings to different customer classes.
4. 2011-2014 LRAM	Tables 4-a, 4-b, 4-c and 4-d include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	Tables 5-a, 5-b, 5-c and 5-d include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	Table 6-b includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Report	A blank spreadsheet is provided to allow LDCs to populate with CDM savings persistence data provided by the IESO.
8. Streetlighting	A blank spreadsheet is provided to allow LDCs to populate data on streetlighting projects whose savings were not provided by the IESO in the CDM Final Results Report (i.e., streetlighting projects).

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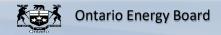


LRAMVA Work Form: Instructions

Version 4.0 (2020)

Tab	Instructions
LRAMVA Checklist/Schematic Tab	The LRAMVA work form was created in a generic manner for use by all LDCs. There are some elements that are not applicable at this time (i.e. 2019 and 2020 related components) but have been included in an effort to avoid major updates in the future. Distributors should follow the checklist, which is referenced in this tab of the work form and listed below:
	o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a.
	o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form.
	o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved.
	o Include a copy of initiative-level persistence savings information that was verified by the IESO. Persistence information is available upon request from the IESO.
	o Apply the IESO verified savings adjustments to the year it relates to. For example, savings adjustments to 2015 programs will be provided to LDCs with the 2016 Final Results Report. The 2015 savings adjustments should be included in the 2015 verified savings portion of the work form.
	o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable.
	o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a.
Tab 1. LRAMVA Summary	Distributors are required to report any past approved LRAMVA amounts along with the current LRAMVA amount requested for approval. There are separate tables indicating new lost revenues and carrying charges amounts by year and the totals for rate rider calculations.
Tab 1-a. Summary of Changes	Distributors should list all significant changes and changes in assumptions in the generic work form affecting the LRAMVA.
Tab 2. LRAMVA Threshold	Distributors should use the tables to display the LRAMVA threshold amounts as approved at a rate class level. This should be taken from the LDC's most recently approved cost of service application.
Tab 3. Distribution Rates	Distributors should complete the tables with rate class specific distribution rates and adjustments as applicable.
Tab 3-a. Rate Class Allocations	A tab is provided to allow LDCs to include documentation or analysis on how rate class allocations for actual CDM savings were determined by customer class and program each year. The rate class allocations would support the LRAMVA rate class allocation figures used in Tabs 4 and 5.
Tabs 4 and 5 (2011-2020)	Distributors should complete the lost revenue calculation for 2011-2014 program years and 2015-2020 program years, as applicable, by undertaking the following:
	o Input or manually link the savings, adjustments and program savings persistence data from Tab 7 (Persistence Report) to Tabs 4 and 5. As noted earlier, persistence data is available upon request from the IESO.
	o Ensure that the IESO verified savings adjustments apply to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table.
	o Confirm the monthly multipliers applied to demand savings. If a different monthly multiplier is used than what was confirmed in the LRAMVA Report, provide rationale in Tab 1-a and highlight the new monthly multiplier that has been used.
	o Input the rate class allocations by program and year to allocate actual savings to customers. If a different allocation is proposed for adjustments, LDCs must provide the supporting rationale in Tab 1-a and highlight the change.
	o Provide assumptions about the year(s) in which persistence is captured in the load forecast via the "Notes" section of each table and adjust what is included in the LRAMVA totals, as appropriate.
Tab 6. Carrying Charges	Distributors are requested to calculate carrying charges based on the methodology provided in the work form. This includes updating Table 6 as new prescribed interest rates for deferral and variance accounts become available and entering any collected interest amounts into the "Amounts Cleared" row to calculate outstanding variances on carrying charges.
Tab 7. Persistence Report	Persistence savings report(s) provided by the IESO should be included for the relevant years in the LRAMVA work form. Tab 7 has been created consistently with the IESO's persistence report.
Tab 8. Streetlighting	A tab is provided to ensure LDCs include documentation or data to support projects whose program savings were not provided by the IESO (i.e., streetlighting projects).

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment D UPDATED May 5, 2020 Page 3 of 24 Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment D UPDATED May 5, 2020 Page 3 of 24



LRAMVA Work Form: Checklist and Schematic

Version 4.0 (2020)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

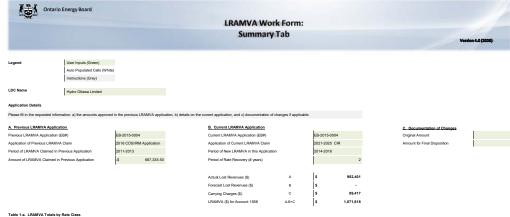
The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA (\$) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Important Checklist

O Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a
O Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form
O Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved
O Include a copy of initiative-level persistence savings information that was verified by the IESO in Tab 7. Persistence information is available upon request from the IESO
O Apply the IESO verified savings adjustments to the year it relates to.
O Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable
O Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports included in Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT). Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT). Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	Determined by the LDC
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"		
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c	
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets
LRAMVA (\$) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"		Tables 1-a and 1-b
+ Carrying Charges (\$) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6	Table 6-a
Total LRAMVA (\$) by Rate Class	Tab "1. LRAMVA Summary"		



Please input the customer rate classes applicable to the LDC and associated billing units (kWh or kW) in Table 1-a below. This will update all tables throughout the workform.

Customer Class	Billing Unit	Principal (\$)	Carrying Charges (\$)	Total LRAMVA (\$)
Residential	kWh	\$461,919	\$42,043	\$503,962
GS<50 kW	kWh	\$193,636	\$17,625	\$211,261
GS 50 TO 1,499 KW	kW	\$234,010	\$21,299	\$255,309
GS 1,500 TO 4,999	kW	\$58,981	\$5,368	\$64,349
Large User	kW	\$33,855	\$3,081	\$36,937
Unmetered Scattered Load	kWh	\$0	\$0	\$0
Street Lighting	kW	\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
Total		\$982,401	\$89,417	\$1,071,818

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

to column C of Table 1s below, please treat a 'thick man't in include the years in which LRAWN has been claimed. If you invented a check man't for a princing year, please debte the amounts associated with the actual and forecast test revenues for all rate diseases for that year, up to and including the total complete and the principle of the principle year.

II LDCs are seeding to claim Trus-up amounts that were previously approach by the CBE, please note that the "Amount Cleared" row are applicable to the LDC and should be filled out. This may reside to claiming the difference in LRAM approach before the May 19, 2016 Peak Demand Consultation, and the lot revenues that account large been incomed after that consultation, as approach by the CBE. If this is the case, reference to the decision must be roaded in the rise and publication. If this is not the case, LDCs are requested to been those nose bank.

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LDCs are expected to been those road bank.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
		kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
2011 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2011 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2012 Actuals	В	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2012 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2013 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2013 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2014 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2014 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2015 Actuals	В	\$461,919.18	\$193,636.46	\$234,009.68	\$58,980.87	\$33,855.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$982,401.26
2015 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared															T	
2016 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2016 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2017 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2017 Forecast	_	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared	1															
2018 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2018 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared		l														
Carrying Charges		\$42,043.31	\$17,624.55	\$21,299.27	\$5,368.37	\$3,081.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$89,416.93

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Total LRAMVA Balance	\$503.962	\$211.261	\$255.309	\$64,349	\$36.937	S0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$1,071,818

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Legend

User Inputs (Green)

Drop Down List (Blue)
Instructions (Grey)

Table A-1. Changes to Generic Assumptions in LRAMVA Work Form

Please document any changes in assumptions made to the generic inputs of the LRAMVA work form. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between current year savings and prior year savings adjustments; inclusion of additional adjustments affecting distribution rates; etc. All changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	7. Persistence Data			To have look-up work from Tab 5. to Tab 7.
2	7. Persistence Data	Column D	Changed Save on Energy Heating & Cooling Program to Save on Energy Heating and	To have look-up work from Tab 5. to Tab 7.
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

Table A-2. Updates to LRAMVA Disposition

Please document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

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User Inputs (Green) Drop Down List (Blue) Auto Populated Cells (White) Instructions (Grey)

Table 2-a. LRAMVA Threshold

2015

Please provide the EARMAN thereford approved in the cost of service (COS) application, which is used as the compender against actual severing in the period of the LRAMAN claim. The LRAMAN thereford should generally be consistent with the annualized savings targets developed from Appendix 2.4 if a manufal update in required to referred addressed addressed application. When the separate previous facilities in required to referred addressed addr

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0														
kW	0														
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold

See 2015 (2011-2015) LRAM Source of Threshold

Table 2-b. LRAMVA Threshold

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-1. If a manual update is required to reflect a different allocation of breast savings that was approved by the CEB, please note the changes and provide rationals for the changes in Tab. 1-a.

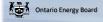
	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0														
kW	0														
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Source of Threshold

Table 2-c. Inputs for LRAWA Thresholds
Please complete Table 2-below by selecting the appropriate LRAWA threshold year in column C. The LRAWA Breshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please settle the Stant's Open. The LRAWA Stantie values in Table 2-c will be auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please settle the Stant's Open. The LRAWA Stantie values in Table 2-c will be auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please settle the Stant's Open. The LRAWA Stantie values in Table 2-c will be auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please settle the Stantie value in Table 2-c will be auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please settle the Stantie value in Table 2-c will be auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please settle the Stantie value in Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please selected in Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please selected in Tables 2-a and 2-b depending on the year selected. If there was no LRAMA threshold established for a particular year, please selected in Tables 2-a and 2-b depending on the year selected. If the year selected in Tables 2-a and 2-b depending on the year selected in Tables 2-a and 2-b depending on the year selected in Tables 2-a and 2-b depending on the year selected. If the year selected in Tables

Year L	LRAMVA Threshold	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
ı		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0

rect demand values shown as CDM saving in Settlement Chart



LRAMVA Work Form: Distribution Rates

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

Please complete Table 3 with the rate class specific distribution rates that pertain to the years of the LRAMVA disposition. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months entered in row 16 of each rate year starting from January to the start of the LDC's rate year. Please enter 0 in row 16, if the rate year begins on January 1. If there are additional adjustments (i.e., rows) addited Table 3, please adjust the formula in Table 3 and accordingly.

	Billing Unit	EB-2009-XXXX	EB-2010-XXXX		EB-2012-XXXX	EB-2013-XXXX	EB-2014-0085	EB-2015-0004	EB-2016-0084	EB-2017-XXXX	EB-2018-XXXX	EB-2019-XXXX	EB-2020-XXXX
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months) Period 2 (# months)		12	12	12	12	12	12	12	12	12	12	12	12
Residential		12	12	12	12	12	\$ 0.0234	12	12	12	12	12	12
Rate rider for tax sharing													
Rate rider for foregone revenue Other	kWh												_
Adjusted rate		\$ -	s -	\$ -	s -	s -	\$ 0.0234	s -	s -	\$ -	\$ -	\$ -	
Calendar year equivalent			s -	\$ -	s -	\$ -	\$ 0.0234	s -	s -	\$ -	\$ -	\$ -	
GS<50 kW							\$ 0.0210			1			
Rate rider for tax sharing	kWh												
Rate rider for foregone revenue Other	KVVII												
Adjusted rate		\$ -		\$ -	S -	S -	\$ 0.0210 \$ 0.0210	\$ -	s -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Calendar year equivalent			s -	\$ -	\$ -	\$ -	\$ 0.0210	\$ -	\$ -	\$ -	\$ -	\$ -	
GS 50 TO 1,499 KW							\$ 3.5691						
Rate rider for tax sharing Rate rider for foregone revenue	kW												
Other													
Adjusted rate Calendar year equivalent		\$ -	\$ -	s -	s -	S -	\$ 3.5691 \$ 3.5691	\$ -	s -	\$ -	\$ -	\$ -	
			•	•	•	•	9 3.3051	•	•	•	•	•	
SS 1,500 TO 4,999							\$ 3.4887						
Rate rider for tax sharing Rate rider for foregone revenue	kW												
Other													
Adjusted rate Calendar year equivalent		\$ -	s -	\$ -	S -	\$ -	\$ 3.4887 \$ 3.4887		\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	
		,								- '	•	-	,
Large User							\$ 3.3129						
Rate rider for tax sharing Rate rider for foregone revenue	kW												
Other		_		_									
Adjusted rate Calendar year equivalent		s -	s -	\$ - \$ -	S -	\$ - \$ -	\$ 3.3129 \$ 3.3129	\$ - \$ -	S -	s -	\$ - \$ -	\$ - \$ -	L
Unmetered Scattered Load Rate rider for tax sharing							\$ 0.0219						
Rate rider for foregone revenue	kWh												
Other Adjusted rate		e	\$ -	e	\$ -	e	\$ 0.0219	e	S -				
Adjusted rate Calendar year equivalent		5 -	\$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ 0.0219 \$ 0.0219	S -	\$ -	\$ - \$ -	\$ - \$ -	\$ -	L
Street Lighting													
Street Lighting Rate rider for tax sharing							\$ 3.9997						
Rate rider for foregone revenue	kW												
Other Adjusted rate		s .			\$ -	\$ -	\$ 3.9997	s -	s -			s -	
Calendar year equivalent			s -	\$ -	\$ -	\$ -	\$ 3.9997	\$ -	\$ -	\$ -	\$ -	\$ -	
												1	
Rate rider for tax sharing													
Rate rider for foregone revenue Other	0												
Adjusted rate		\$ -	s -	\$ -	S -	S -	\$ -	s -	S -	\$ -	\$ -	\$ -	
Calendar year equivalent			\$ -	\$ -	s -	s -	\$ -	s -	s -	\$ -	\$ -	\$ -	
0		ſ		1	1				1	1	1	1	r
Rate rider for tax sharing													
Rate rider for foregone revenue Other	0												
Adjusted rate		s -	s -		S -		\$ -	\$ -	s -	s -	\$ -	s -	
Calendar year equivalent			s -	s -	s -	\$ -	\$ -	\$ -	s -	s -	\$ -	\$ -	
0												1	
Rate rider for tax sharing													
Rate rider for foregone revenue Other	0												
Adjusted rate Calendar year equivalent		S -	s -	s -	s -	\$ - \$ -	\$ -	s -	s -	s -	s -	s -	
Carendar year equivalent			5 -		\$ -	\$ -	\$.	\$ -	\$ -	\$ -	š -		
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue Other	U												
Adjusted rate		S -	s -	s -	\$ -		\$ -	s -	s -	s -	s -	s -	
Calendar year equivalent			• -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
0													
Rate rider for tax sharing Rate rider for foregone revenue	0												
Other	ŭ												
Adjusted rate		\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	
Calendar year equivalent				•	•	•		•	•	•	•		
Rate rider for tax sharing Rate rider for foregone revenue	0												
Adjusted rate Calendar year equivalent		S -		\$ -	S -	\$ -	\$ - \$ -	S -	S -	s -	\$ -	\$ - \$ -	L
outchool year equivalent			• •	• •		•	· ·	• .		•	•	•	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Rate rider for foregone revenue Other													
Rate rider for foregone revenue		\$ -	s -	\$ -	\$ -	\$ -	\$ -	s -	S -	S -	S -	\$ -	

Note: LDC to make note of adjustments made to Table 3 to accommodate the LDC's specific circumstances

Table 3-a. Distribution Rates by Rate Class
Table 3-a below autopopulates the average distribution rates from Table 3. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used. Please clear the rates related to the year(s) that are not part of the LRAMVA claim.

Year	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
	kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0
2011	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2012	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2013	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2014	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2015	\$0.0234	\$0.0210	\$3.5691	\$3.4887	\$3.3129	\$0.0219	\$3.9997	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2016	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2017	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2018	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Note: IDC to make note of the years rem	oved from this table	whose distribution	rates are not part of	f the LRAMVA dispositi	inn									



LRAMVA Work Form: Determination of Rate Class Allocations

Version 4.0 (2020)

Instructions

LDCs must clearly show how it has allocated actual CDM savings to applicable rate classes, including supporting documentation and rationale for its proposal. This should be shown by customer class and program each year.

This information is provided in UPDATED Exhibit 4-5-2: LRAM Variance Account

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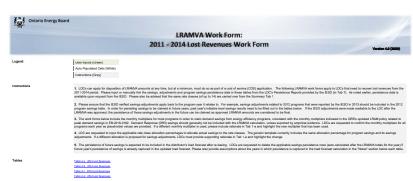


Table 4-a. 2011 Lost Revenues Work Form		Net E Saving	ergy		N	et Energy Sa	vings Persist	ence (kWhi				Not Demar Savings (k)	d		Not P	ak Demand Savi	os Persisten	ce (RW)								Rate Alloc	ations for LRA	MVA					
Program	Results Status			912 2					2018 2011	2020	Monthly Multiplier	Savings (k) 2011	20	2 2013					2019 2020	Residential	GS<50 kW	SS 50 TO 1,499 KW	GS 1,500 TO 4,222	Large User	Unmetered Scattered Load	Street Lighting							Total
Consumer Program Appliance Retirement	Verified																			kWh 0.00%	0.00%	0.00%	NW 0.00%	0.00%	60%	NW 0.00%	0.00%	0.00%	0 00%	0.00%	0	0	0 0%
Adjustment to 2011 savings Z Appliance Exchange	True-up Verified]									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%
Adjustment to 2011 savings 3 HVAC Incentives	True-up Verified									-]						+												0.00%				0%
Adjustment to 2011 savings 4 Conservation Instant Coupon Booklet Adjustment to 2011 savings	True-up Verified				-	-				-]			-			-			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5 Bi-Annual Retailer Event	True-up Verified	_		-	+	+	+	=		+]		#	+-	+==		+=			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2011 savings Retailer Co-op Adjustment to 2011 savings	True-up Verified		==	#		#				-	1		H	4			#			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2011 savings 7 Residential Demand Response	True-up Verified										1						_			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2011 savings 8. Residential Demant Resource (HD)	True-up Verified					4					1		-				-			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential Demand Response (HD) Adjustment to 2011 savings Residential New Construction	True-up Verified					-					1									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2011 savings	True-up				-1	1				1	i				1		#			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
to Adjustment to 2011 savings	Verified True-up		\equiv	Ξ	Ш.	Ш				E.	12	L.	H	H	Н					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
11 Direct Install Lighting Adjustment to 2011 savings	Verified True-up					+	+		-+-	-	12				+		+			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
12 Building Commissioning Adjustment to 2011 savings	Verified True-up		\pm		-	\pm				+ -	3			\pm		E				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
New Construction Adjustment to 2011 savings	Verified True-up		\equiv		-11-1	#				-	12	H								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Energy Audit Adjustment to 2011 savings	Verified True-up			-	-1	4	1	=	- 1		12		#	#	#		-			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15 Small Commercial Demand Response Adjustment to 2011 savings	Verified True-up										}									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Small Commercial Demand Response (IHD)	Verified]																						0%
Adjustment to 2011 savings 17 Demand Response 3 Adjustment to 2011 savings	True-up Verified				+	+		_		-]]		+	+-			+			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Program	Тпин-ир]									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Nooss & System Upgrades Adjustment to 2011 savings	Verified True-up		-	-						-	12			+-	+		+			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Monitoring & Targeting Adjustment to 2011 savings	Verified True-up										12			-						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
20 Energy Manager Adjustment to 2011 savings	Verified True-up		\pm	-16	-	-				-	12				Н					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
21 Retrofit Adjustment to 2011 savings	Verified True-up		\equiv	- 1	Н.	\pm	$\pm \pm 1$			H	12			1	Н	Ш			\equiv	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ZZ Demand Response 3 Adjustment to 2011 savings	Verified True-up		\equiv		-11	#::			\equiv	-									\equiv	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Home Assistance Program Home Assistance Program Adjustment to 2011 savings	Verified True-up		_			4					1		-	-						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aboriginal Program Home Assistance Program	Verified			- '-							1										2.00.0	2.00 M	0.00.0	_00.76	U.W.A	0.00.4			0.0074	U.W.A	0.007		050
Adjustment to 2011 savings 25. Direct Install Lighting	True-up Verified		#	#		#=		=	#		1		#	=	=				#	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2011 savings	True-up		===	_		1				1	0		===		1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Pre-2011 Programs completed in 2011 25 Electricity Retrofit Incentive Program Adjustment to 2011 savings	Verified True-up					-					12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
High Performance New Construction Adjustment to 2011 savings	Verified True-up			-		+					12		-	+-	+		+			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Toronto Comprehensive Adjustment to 2011 savings	Verified True-up										0									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Multifamily Energy Efficiency Rebates Adjustment to 2011 savings	Verified True-up				-1	4				-	0								-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
LDC Custom Programs Adjustment to 2011 savings	Verified True-up		Ŧ	Ŧ	-	+		-		+	0		Ŧ							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other IT Program Enabled Savings	Verified									-																							0%
Program Enabled Savings Adjustment to 2011 savings 7 Time of Use Savings	True-up Verfied			#	4	+				ļ	0	ļ	-	-			+			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
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Adjustment to 2011 savings LDC Pilots Adjustment to 2011 savings	True-up Verified True-up									12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2011 savings Actual CDM Savings in 2011 Forecast CDM Savings in 2011	Тпан-ир					-		-		12		-	+-	_		-			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Forecast COM Savings in 2011						1		_		-				-			1		\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0,00000	50,00000	50,00000	\$0.00000	\$0,00000	\$0,00000	\$0,00000	\$0.00000		_
Distribution Rate in 2011 Lost Revenue in 2011 from 2011 programs Forecast Lost Revenues in 2011 LRAMVA in 2011																			\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.000 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00
2011 Savings Persisting in 2012 2011 Savings Persisting in 2013 2011 Savings Persisting in 2014 2011 Savings Persisting in 2014 2011 Savings Persisting in 2015 2011 Savings Persisting in 2016 2011 Savings Persisting in 2016 2011 Savings Persisting in 2016 2011 Savings Persisting in 2018 2011 Savings Persisting in 2019 2011 Savings Persisting in 2019 2011 Savings Persisting in 2020																			0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	
Note: LDC to make note of key assumptions inclu Table 4-b. 2012 Lost Revenues Work Form	ided above	Return to too																															
	Deserte	Net Energy Savings (kWh)		N	let Energy Sav	rings Persis	fence (kWh)	1		Monthly	Net Demi Savings (I	and kW)		Not Po	ak Demand Sar	rings Persist	ence (kW)								Rate Allo	cations for LRA	AWA						
Program	Results Status	2012	2013 20	214 201	15 2016	2017	2018	2019 2	020 2021	Monthly Multiplier	2012	201	3 2014	2015	2016 20	117 2011	2019	2020 2021	Residential	G5<50 kW	GS 50 TO 1,459 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
Consumer Program Appliance Retirement Adjustment to 2012 savings	Verified True-up																		6Wh	0.00%	0.00%	8W 0.00%	WV 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Appliance Exchange	Verified True-up				-					3									0.00%	0.00%	0.00%		0.00%								0.00%	0.00%	0%
Adjustment to 2012 savings HVAC Incentives Adjustment to 2012 savings	Verified True-up				+==	+		==		1		-	+-	-					1			0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			0%
Consensation Instant Counon Booklet	True-up Verified True-up					<u> </u>				3									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2012 savings Bullenned Retailer Frant										1										0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Bi-Annual Retailer Event Adjustment to 2012 savings	Verified True-up			-									#						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Retailer Co-op Adjustment to 2012 savings	Verified True-up					_				1			#						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential Demand Response Adjustment to 2012 savings	Verified True-up												-						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential Demand Response (IHD) Adjustment to 2012 savings	Verified True-up	L				1							1	İ.,	 .		1		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Residential New Construction Adjustment to 2012 savings	Verified True-up					+						-				+	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Business Program Retroft Adjustment to 2012 savings	Verified True-up					+		_		12			-	-				_	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Direct Install Lighting Adjustment to 2012 savings	Verified True-up					-		-		12		-	-			_			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2012 savings Building Commissioning Adjustment to 2012 savings	Verified True-up						ll			1 3									0.00%														0%
Adjustment to 2012 savings New Construction Adjustment to 2012 savings	Verified True-up		-		-	+-		_	-	12		-	+-	-		-		-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
			-	-						1 12			-	H					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Energy Audit Adjustment to 2012 savings	Verified True-up		===	#					4	12			4					#	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Small Commercial Demand Response Adjustment to 2012 savings Small Commercial Demand Response (IHD)	Verified True-up		_	#	4	二	브		4				#	1		ᅼ		#	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2012 savings	Verified True-up				_			-	_										0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Demand Response 3 Adjustment to 2012 savings	Verified True-up									3			H						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Industrial Program Process & System Upgrades Adjustment to 2012 savings	Verified									1 12			-						1														0%
Adjustment to 2012 savings Monitoring & Targeting Adjustment to 2012 savings	Verified True-up Verified True-up									12				<u> </u>					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
						=				12			-			=			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Energy Manager Adjustment to 2012 savings	Verified True-up			-		Ļ	=			12			4	ļ.,		<u>.</u>		-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Retroft Adjustment to 2012 savings	Verified True-up					丰				12			4						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Demand Response 3 Adjustment to 2012 savings	Verified True-up		_										٠	1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Home Assistance Program Home Assistance Program Adjustment to 2012 savings	Verified True-up					_				3			+			-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Aboriginal Program Home Assistance Program																			_														0%
Augustiniin to 2012 assings	Verified True-up		_	4	4	<u> </u>		_				4	-	<u> </u>					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Direct Install Lighting Adjustment to 2012 savings	Verified True-up		_		-	_		_		0		-		-		_	+		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Pre-2011 Programs completed in 2011 Electricity Retroft Incentive Program Adjustment to 2012 savings	Verified True-up							-		12			-1	1		-	11		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
High Performance New Construction Adjustment to 2012 savings	Verified True-up		Ŧ	T	Ŧ		릐	Ŧ	Ŧ	12		Ŧ	T			Ŧ			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2012 savings Toronto Comprehensive Adjustment to 2012 savings	Verified True-up								==	0		==				$\dot{=}$		===	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2012 savings Multifamily Energy Efficiency Rebates Adjustment to 2012 savings	Verified True-up		==		-	=		=		. 0		===	+			\pm			1														0%
Adjustment to 2012 savings LDC Custom Programs Adjustment to 2012 savings	True-up Verified True-up						I I			0								-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
										0			T						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Other Program Enabled Savings Adjustment to 2012 savings	Verified True-up					1		- F		0		H	Ŧ				-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Time of Use Savings Adjustment to 2012 savings	Verified True-up	H				\mathbf{H}				0			-	Ш					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
LDC Pilots Adjustment to 2012 savings	Verified True-up									12			-1-	I .		_	1		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2012 Forecast CDM Savings in 2012			Ŧ	=	=	F	一	Ŧ	=			Ŧ	Ŧ	Ξ		Ŧ	F		0		0			0	0					0	0		=
Distribution Rate in 2012																			\$0.00000	\$0.00000	\$0,00000	\$0.00000	\$0.00000	\$0,00000	\$0.00000	\$0.00000	\$0.00000	\$0,00000	\$0.00000	\$0,00000	\$0.00000	\$0.00000	
Distribution Rate in 2012 Loss Revenue in 2012 from 2011 programs Loss Revenue in 2012 from 2012 programs Total Lost Revenues in 2012 Forecast Lost Revenues in 2012 LRAMVA in 2012																			\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00
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Consumer Program Very Control of	selfad se	2013 2013 2014 2014 2014 2014 2014 2014 2014 2014	# 200 2014	2017 2018	2515 2220 2515 2220		Monthly Multiplier	Not Densed	2015	Net Peak Dec	7 2018 201	9 2000 20	1 2002	Residential NWh 0.00% 0.00% 0.00% 0.00%	CS-450 kW CS-450 kW	5 50 TO 1,450 C KW WW 0.00% 0.00% 0.00%	0.00% 0.00%	0.00% 0.00% 0.00%	0.00%	60 LIGHTS 0 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0.00% 0.00% 0.00% 0.00% 0.00%	0.00%	0.00% 0.00% 0.00% 0.00%	0 0.00% 0.00% 0.00% 0.00%	0 0.00% 0.00% 0.00% 0.00%	0.00%
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reconstruct and course floated with the course of the course and course to course and course to course and cou	erfled AN-UP A						12 12							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Avoid Related Event The common Part of the Common	ertiled sharp sertiled					12							0.00%	0.00%						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
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13 Savings Persisting in 2019 13 Savings Persisting in 2020														0	0	0	0	0	è	0	0 0	ě			0	ě
te: LDC to make note of key assumptions included abor ble 4-d. 2014 Lost Revenues Work Form	above Petur	to Top																								
	4444	it Energy Ings (kWh)		Energy Savinga Persis	atence (kWh)		Monthly Multipler	Net Demand Savings (kW)			nand Savings Persis	tence (KW)							renelared	Rate Allocations	ns for LRAMVA					
	11924	2014 20	5 2016 2017	2018 2019	2020 2021	2022 2023	Wiltipler	2014 20	15 2016	2017 201	2019 202	0 2021 20	2 2023	Residential	GS450 kW	S 50 TO 1,499 KW	GS 1,500 TO 4,222	Large User S	icattered Stre Load	eet Lighting	بكالب	الجاء	الجاء		الجد	ج
nsumer Program plance Retirement Vesti ustment to 2014 savings True-	erified Ne-up						-				+		+	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
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Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 5
Schedule 2
Attachment D
UPDATED
May 5, 2020
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4 Conservation Instant Coupon Booklet Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bi-Annual Retailer Event Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Retailer Co-op Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7 Residential Demand Response Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential Demand Response (IHD) Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
 Residential New Construction Adjustment to 2014 savings 	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Business Program to Retrofit	Verified														0%
Adjustment to 2014 savings	True-up Verified		0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%
Adjustment to 2014 savings	Тпин-ир	12	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%
Adjustment to 2014 savings 13 New Construction	Verified True-up Verified		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2014 savings	True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14 Energy Audit Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15 Small Commercial Demand Response Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Small Commercial Demand Response (HD) Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
17 Demand Response 3 Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Program 15 Process & System Upgrades															0%
Adjustment to 2014 savings 19 Monitoring & Targeting	Verified True-up Verified	12	0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2014 savings	True-up Verified		0.00%	0.00%	0.00% 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
20 Energy Manager Adjustment to 2014 savings	Тпие-ир	12	0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
21 Retroft Adjustment to 2014 savings	Verified True-up	12 12	0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22 Demand Response 3 Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Home Assistance Program Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aboriginal Program Home Assistance Program Adjustment to 2014 savings	Verified True-up		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
25 Direct Install Lighting Adjustment to 2014 savings	Verified True-up		0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%
Pre-2011 Programs completed in 2011 26 Electricity Retroft Incentive Program	Verified														0%
Adjustment to 2014 savings	True-up Verified		0.00%	0.00%	0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
27 High Performance New Construction Adjustment to 2014 savings	Тпин-ир	12	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
28 Toronto Comprehensive					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%			
Adjustment to 2014 savings	Verified True-up		0.00%	0.00%		0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
29 Multifamily Energy Efficiency Rebates Adjustment to 2014 savings			0.00%	0.00%	0.00% 0.						0.00%		0.00%		0.00%
29 Multifamily Energy Efficiency Rebates	True-up Verified				0.00% 0.	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%		0.00%	0.00%
Multifamily Energy Efficiency Rebates Adjustment to 2014 savings 20 LDC Custom Programs Adjustment to 2014 savings Other 31 Program Enabled Savings	True-up Verified True-up Verified True-up Verified		0.00%	0.00%	0.00% 0.	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22 Multifarnity Energy Efficiency Robustes Adjustament to 2014 savings 20 LDC Custom Programs Adjustament to 2014 savings 21 Program Enabled Savings Adjustament to 2014 savings Adjustament to 2014 savings 32 Time of the Savines	True-up Verified True-up Verified True-up Verified True-up Verified True-up		0.00%	0.00%	0.00% 0.00% 0.00%	00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
22 Mattifamily Energy Efficiency Robubos Adjoinment to 2014 awarens Adjoinment to 2014 awarens Adjoinment to 2014 awarens 20 Program Enabland Savings Adjoinment to 2014 awarens 22 Time of the Savings Adjoinment to 2014 awarens Adjoinment	True-up Verified True-up Verified True-up Verified True-up Verified True-up		0.00%	0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	00% 0.00% 00% 0.00% 00% 0.00% 00% 0.00%	0.00%	0.00% 0.00% 0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BALINGERIN Francy Efficiency Publishes Adjustments 12-014 savings IDC Counters Programs Adjustments 12-014 savings Theory of the Counters Programs Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings Adjustments 12-014 savings	True-up Verified True-up Verified True-up Verified True-up Verified True-up		0.00%	0.00%	0.00% 0.00%	0076 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00%	0.00% 0.00% 0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00% 0.00% 0.00%	0.00%
2. MacRowing Energy Elicitors of Notables Adjustments to 214 savings 2. D.C. Coutain Programs Adjustments to 214 savings 2. Program Enabled Savings Adjustments to 214 savings Adjustme	True-up Verified True-up Verified True-up Verified True-up Verified True-up		0.00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00%	0.00%	0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
29. Auditoring Facury Efficiency Relations Applications to 2014 auditory 20. LDC Custom Programs Applications to 2014 auditory 20. Comment of the Comment of the 2014 auditory 2014 auditory 2015 auditory 2014 auditory 2015 auditory 2014 auditory 2015 audi	True-up Verified True-up Verified True-up Verified True-up Verified True-up		0.00%	0.00% 0.00% 0.00% 0.00%	0.00% 0.00%	00% 0.00% 00% 0.00% 00% 0.00% 00% 0.00% 00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00%	0.00%	0.00%	0.00% 0.00% 0.00% 0.00%	0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 5.00000 1 5.00000 1 5.000 5.000 5.000	0.00%
Auditorio Errorgo Elitorrop Nationales Adquirement to 2 state saming a 20.00 Custom Programs Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming Adquirement to 2 state saming to 2 state sami	Tran-up Verified Tran-up Verified Tran-up Verified Tran-up Verified Tran-up Verified Tran-up		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.0000 0.0000 0.00000 0.00000000	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.0000 \$0.0000	0.00% 0.00%	50% 0.00% 50% 0.00% 50% 0.00% 50% 0.00% 50% 0.00% 50% 6.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 5.00000 5.00000 5.0000000000	0.00% 0.00% 0% 0.00% 0% 0.00% 0%

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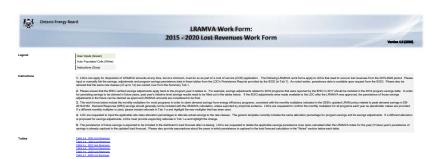


Table 5-a. 2015 Lost Revenues Work Form		Not Georgy Not Excess Serious Provisions (WRIT) Not Serious Not Peak Comment Serious Provisions (WRIT)						Data Al	ocations for LRAN	2/4						
Program	Results Status	2014 2014 2017 2018 2019 2021 2021 2022 2022 2024 2014 2022 2022	Residential	G5+50 kW	GS 50 TO 1,429 KW	55 1,500 TO 4,999	Large User U	ametered tered Load Street Lighti	9							Total
Legacy Framework Residential Program Coupon Initiative Adjustment to 2015 savings	Verified True-up	A 750.577 400.608 A 500.608 400.608 400.608 400.608 400.608 A00.608 A0	100.00% 100.00%	0.00%	. W	0.00%	0.00%	100% NW	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Si-Annual Retailer Event Initiative Adiastreet to 2015 sevinos			100.00%	0.00%	0.00%	0.00%		0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Appliance Retirement Initiative Adjustment to 2015 savings	Verified True-up		100.00%	0.00%	0.00%	0.00%		0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
HVAC Incentives Initiative Adjustment to 2015 savings	Verified True-up		100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Residential New Construction and Major Adjustment to 2015 savings	Verified True-up	664,865 664,865 654,865 654,865 666,865 666,865 664,86	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Commercial & Institutional Program Energy Audit Initiative Adjustment to 2015 savings	Verified True-up	3.462.201 3.462.	0.00%	3.00%	62.00% 62.00%	30.00% 30.00%	5.00% 5.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Efficiency: Equipment Replacement Incentive Initiative Adjustment to 2015 savings	Verified True-up	30,000,000 30,000,000 30,100,000 30,100,000 30,100,000 30,100,000 30,100,000 30,100,000 30,100,000 30,100,000 30,000,000 30,000,000 30,	0.00%	11.00%	67.00%	15.00%	7.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Direct Install Lighting and Water Heating	Verified	5,000,195 3,617,190 2,777,200 2,775,365 2,775,365 2,775,365 2,775,365 2,775,365 2,775,365 2,775,365 2,775,365 2,775,214 2,775,214 12 1,169 853 633 633 639 639 639 639 639 639 639 63		90.00%	7.00%	3.00%										100%
Adjustment to 2015 savings New Construction and Major Renovation	True-up Verified	2.557.856 428.020 201.527 447.38 447.38 447.38 447.38 447.32 447.32 447.32 12 448 47.72 23 105 105 105 105 105 105 105 105 105 105	0.00%	90.00%	7.00%	3.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Initiative Adjustment to 2015 savings Existing Building Commissioning Incentive	True-up	202.460 203.450 203.450 200.450 200.450 200.450 200.450 200.450 200.460 200.460 200.460 12 38 38 38 38 38 38 38 38 38	0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Initiative Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Industrial Program Process and Systems Upgrades Initiatives - Project Incentive Initiative Advanced to 1915 annual	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000		100.00%	0.000	0.000		0.000			0.000	0.000			100%
Adjustment to 2015 savings Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	True-up Verified		0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Adjustment to 2015 savings	True-up		0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Process and Systems Upgrades Initiatives - Energy Manager Initiative Adjustment to 2015 savings	Verified True-up	\(\begin{align*} \begin{align*} \lambda \frac{1}{2} \\ \lambda \frac{1} \\ \lambda \frac{1}{2} \\ \lambda \frac{1}{2} \\ \lambda \frac	0.00%	18.30%	50.00% 50.00%	27.60% 27.60%	4.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Low Income Program Low Income Initiative Adjustment to 2015 savings	Verified True-up		100.00% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Other Aboriginal Conservation Program Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Program Enabled Savings Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation Fund Pilots Conservation Fund Pilot - EnerNOC Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Loblaws Pilot Adjustment to 2015 savings	Verified True-up	1,07/186 (137/88) 1,07/88 (137/88) 1,07/88 1,0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Conservation Fund Pilot - SEG Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Social Benchmarking Pliot Adjustment to 2015 savings	Verified True-up	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation First Framework Residential Province-Wide Programs Saw on Energy Coupon Program Adulatment to 2015 savinza	Verified True-up	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy Heating and Cooling	Verified															0%
Program Adjustment to 2015 savings Save on Energy New Construction Program	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Save on Energy Home Assistance Program Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Non-Residential Province-Wide Programs Save on Energy Audit Funding Program Adjustment to 2015 savings	Verified True-up	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy Retrofit Program Adjustment to 2015 savings	Verified True-up	151(118 154(384 155(0.00%	15.00% 15.00%	45.00% 45.00%	7.00% 7.00%	33.00% 33.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Save on Energy Small Business Lighting Program Adiastreet to 2015 savinos	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	100.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Save on Energy High Performance New Construction Program Adjustment to 2015 savings	Verified	0 0 0 0 0 0 0 0 0 0 0 0 0			100.00%											100%
Save on Energy Existing Building	True-up Verified	44,008 44,008 44,008 44,008 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Commissioning Program Adjustment to 2015 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

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Hydro Ottawa Limited EB-2019-0261 Exhibit 4

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Leaf Revenue in 2015 from 2014 programs Leaf Revenue in 2015 from 2015 programs Total Leaf Revenues in 2015 Forcast Loaf Revenues in 2015 URAMVA in 2011 2015 Savings Pensisting in 2016 2015 Savings Pensisting in 2011 2015 Savings Pensisting in 2011 2015 Savings Pensisting in 2011 2015 Savings Pensisting in 2011 2015 Savings Pensisting in 2011			\$0.00 \$461,919.18 \$461,919.18 \$0.00 19,442,880 19,415,414 19,389,373 19,237,862 19,016,875	\$0.00 \$190,636.46 \$193,636.46 \$0.00 9,367,169 9,422,931 9,038,500 9,038,500 9,030,500	\$0.00 \$234,009.68 \$234,009.68 \$3.00 65,505 65,502 65,502 65,503 65,504	\$0.00 \$20,980.87 \$50,980.87 \$0.00 15,902 15,904 15,923 17,000 17,009	\$0.00 \$33,855.06 \$33,855.06 \$0.00 10,216 10,220 10,129 10,152	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$002,401.2i \$902,401.2i \$0.00 \$902,401.2i
Distribution Rate in 2011 Lost Revenue in 2015 from 2011 programs Lost Revenue in 2015 from 2012 programs Lost Revenue in 2015 from 2013 programs			\$0.02340 \$0.00 \$0.00 \$0.00	\$0.02100 \$0.00 \$0.00 \$0.00	\$3,56910 \$0.00 \$0.00 \$0.00	\$3,48870 \$0.00 \$0.00 \$0.00	\$3.31290 \$0.00 \$0.00 \$0.00	\$0.02190 \$0.00 \$0.00 \$0.00	\$3,99970 \$0.00 \$0.00 \$0.00	\$0,00000 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00	\$0,00000 \$0.00 \$0.00 \$0.00	\$0,00000 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00	\$0,00000 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00
Actual COM Savings in 2011 Forecast COM Savings in 2011	True-up	8,214,579 13,262	19,740,136	9,220,784	0.00% 65,565	16,906	10,219	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	_
Adjustment to 2015 savings Toronio Hydro-Electric System Limited - PFP - Large (Plot Savings)	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															0%
	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Galorille Hydro Electricity Distribution Inc Direct Install - Hydronic Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Nagara-on-the-Lake Hydro Inc Direct 44 Install Energy Efficiency Measures for the Activatural Sector Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0%
Hydro Ottawa Limited - Conservation 41 Voltage Regulation (CVR) Leveraging AMI Data Pilot Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Benchmarking Pilol Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
39 Horizon Utilities Corporation - ECM Furnace Motor Pilot Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25 EnWin Utilities Ltd Re-Invest Pilo Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
27 EnWin Utilities Ltd Building Optimization Prior Adjustment to 2015 servings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Program - Conservation Fund Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
35 Social Benchmarking Local Program	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings If First Nation Conservation Local Program Adjustment to 2015 savings	True-up Verified True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings Local & Regional Programs 33 Pasings Refrigeration Local Programs	True-up Verified			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2st Save on Energy Monitoring & Turgeting Program Adjustment to 2015 savings 22 Save on Energy Energy Manager Program	Verified True-up Verified			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

15.0734

Table 5-b. 2016 Lost Revenues Work Form		2012													
	Results Status	Section Sect	etal GS-50 k	GS 50 TO 1,429 KW	GS 1,500 TO 4,999	Large User Sc	Unmetered attered Load	Rate Allocation	ns for LRAMVA						
Legacy Framework Residential Program Coupon Initiative Adjustment to 2016 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ns 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	00% 01	0 0	6 0.00%	0.00%	0.00%	100
Si-Annual Retailer Event Initiative Adjustment to 2016 savings	Verified True-up		ns.	0.00%	0.00%	0.00%	0.00%				00% 0.00		0.00%	0.00%	100
	Verified True-up	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ns 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00.0	5 0.00%	0.00%	0.00%	100
	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00.00	0.00%	0.00%	0.00%	100
Renovation Initiative Adjustment to 2015 savings	Verified True-up		% % 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	s 0.00%	0.00%	0.00%	100
Commercial & Institutional Program Energy Audit Initiative Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00% 0.00	5 0.00%	0.00%	0.00%	on
	Verified		6 0.00%												a
Direct Install Lighting and Water Heating	True-up Verified			0.00%	0.00%	0.00%	0.00%			.00% 0.1	0.00	5 0.00%	0.00%	0.00%	0
,	True-up Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
Initiative Adjustment to 2016 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00.0	0.00%	0.00%	0.00%	
nitiative Adjustment to 2015 savings	Verified True-up		6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00.0	6 0.00%	0.00%	0.00%	0
	Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.00% 0	100% 0.1					o
Process and Systems Upgrades Initiatives -	True-up Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
djustment to 2015 savings	True-up		6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
	Verified True-up		6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	s 0.00%	0.00%	0.00%	-
ow Income Program ow Income Initiative djustment to 2016 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	100% 0.1	00% 0.00	0.00%	0.00%	0.00%	
Other Boriginal Conservation Program															
djustment to 2016 savings		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
quatment to 2016 savings enservation Fund Pilot; enservation Fund Pilot - EnerNOC			6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
justment to 2015 savings	True-up Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
			6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	5 0.00%	0.00%	0.00%	
cial Benchmarking Pilot Justment to 2015 savings			6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00% 0.00	5 0.00%	0.00%	0.00%	
onservation First Framework															
		Heart Hear		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	,
justment to 2015 savings	True-up	\$4,907 \$4,907 \$4,907 \$2,900 \$2	n 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00.0	0.00%	0.00%	0.00%	
djustment to 2016 savings	Verified True-up		ns 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00.0	6 0.00%	0.00%	0.00%	
	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0			5 0.00%	0.00%	0.00%	
on-Residential Province-Wide Program ave on Energy Audit Funding Program djustment to 2015 savings	Verified	210,032 210,03	. 0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00% 0.00	5 0.00%	0.00%	0.00%	
yearners to 20 to savings we on Energy Retroft Program Sustment to 2016 savings		20/20/1 20/20 20/2			0.00%	0.00%	0.00%				00% 0.00		0.00%	0.00%	
eve on Energy Small Business Lighting	Verified True-up		100.009			0.00%	0.00%	0.00%	0.00% 0				0.00%		
	True-up Verified	500,159 500,1500,150 500,150 500,150 500,150 500,150 500,150 500,150 500,150 500,150 50		100.00%	0.00%					.00% 0.1	0.00	0.00%		0.00%	
we on Energy Existing Building	True-up Verified	84.760 84.760 84.760 84.76 82.79 42.79 42.79 42.79 42.79 42.79 279 12 27 27 27 27 27 2 2 2 2 2 2 2 2 3 0000	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
ommissioning Program djustment to 2016 savings	True-up		0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	0.00%	0.00%	0.00%	
logrades Program djustment to 2016 savings	Verified True-up	4451556 4451556 4451556 4451556 4451556 4451556 4451556 4451556 4451556 4451556 4451556 4551556 445156 4451	6 0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00.00	0.00%	0.00%	0.00%	
	Verified True-up		6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	s 0.00%	0.00%	0.00%	
eve on Energy Energy Manager Program	Verified True-on	282,445 283,445 283,445 283,445 283,445 283,445 283,870 283,87	. 0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00% 0.00	5 0.00%	0.00%	0.00%	
cal & Regional Program:				100.0078											
		6	6 0.00%	0.00%	0.00%	0.00%	0.00%		0.00% 0	.00% 0.1	0.00	5 0.00%	0.00%	0.00%	
quatment to 2016 savings scial Benchmarking Local Program quatment to 2016 savings	Verified True-up			0.00%	0.00%	0.00%	0.00%				0.00		0.00%	0.00%	
lot Programs	. marray			0.007	V-047/8	3.00/8							0.0076	0.007	
ogram - Conservation Fund Quatment to 2016 savings	Verified True-up		6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00% 0.00	s 0.00%	0.00%	0.00%	
	Verified True-up	12	6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	00% 0.00	s 0.00%	0.00%	0.00%	
	Verified True-up			0.00%	0.00%	0.00%	0.00%			.00% 0.1			0.00%	0.00%	
ot Busiment to 2016 savings Win Utilise Ltd Re-Invest Plio															
or justiment to 2015 savings Win Utilities Ltd Re-Invest Pilo djustiment to 2015 savings orizon Utilities Corporation - ECM Furnace	Verified True-up	12	6 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0	.00% 0.1	0.00	5 0.00%	0.00%	0.00%	
1001 (pulsarient to 20 16 anvings INVin Utilities Ltd Re-Invest Pilo (qualizent to 20 16 anvings outroe Utilities Corporation - ECM Furnace loter Pilot (qualizent to 20 16 anvings (pulsarient to 20 16 anvings)	True-up Verified	12 2													
indigeneral to 2015 savings With Utilities Ltd Re-Invest Pilo quistreral to 2015 savings Lorizon Utilities Corporation - ECM Furnace lotar Pilot Quinteral to 2015 savings Lorizon Utilities Corporation - Social involved Utilities Corporation - Social involved Utilities Corporation - Social involved Utilities Corporation - Social involved Utilities Corporation - Social involved Utilities - Corporation	True-up	1 9 100 100 100 100 100 100 100 100 100		0.00%	0.00%	0.00%	0.00%			.00% 0.1			0.00%	0.00%	

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 5
Schedule 2
Attachment D
UPDATED
May 5, 2020
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Hydro Ottawa Limited - Residential Demand 42 Response Wi-Fi Thermostat Pilot	Verified	0			۰	0	0	0		0	0	۰		٥	۰	۰	0	0 0		0	0 0															0%
Adjustment to 2016 savings	True-up	0			.0		. 0	. 0	. 0	. 0	. 0		1	. 0	.0.		0	0 0	. 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42 Kitchener-Wilmot Hydro Inc Pilot - DCKV	Verified		-						1	1	1		12	1					-	1 1																0%
Adjustment to 2016 savings	True-up			_:::					1		-		.12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Niagara-on-the-Lake Hydro Inc Direct 44 Install Energy Efficiency Measures for the Agricultural Sector	Verified		Т	Т					T	Τ	I		12	Γ	1	Г		Т	T	П																0%
Adjustment to 2016 savings	True-up								J	J	i	i	12	Ĺ	j	i		_ 1_		i		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45 Cokville Hydro Electricity Distribution Inc Direct Install - Hydronic Adjustment to 2016 savings	Verified True-up		_	_					1	-	.	l	12	ļ.,,	—	<u> </u>			4			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
45 Oakville Hydro Electricity Distribution Inc Direct Install - RTU Controls Aduatment to 2016 savinos	Verified True-up		-	-					-	-			12		1		H	1	1			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
47 Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings Adjustment to 2016 savings	Verified True-up		T	Ŧ	-				1				12		T		H	-	T			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Toronto Hydro-Electric System Limited - 45 Direct Install - RTU Controls (Pilot Savings)	Verified												12	1	T																					0%
Adjustment to 2016 savings	True-up								1				12			L						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Toronto Hydro-Bectric System Limited - PFP - Large (Pilot Sevings) Adjustment to 2016 savings	Verified True-up								1	1			12	ļ			\Box		1	\Box		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2011		91,928.7	93	_						_				11,273				$\overline{}$				34,865,821		94,552									-			
Forecast CDM Savings in 2016				-1-					1													0	0			9	0	0		0	0			0		
Distribution Plate in 2018 Lost Revenue in 2016 from 2011 programs Lost Revenue in 2016 from 2012 programs Lost Revenue in 2016 from 2012 programs Lost Revenue in 2016 from 2013 programs Lost Revenue in 2016 from 2015 programs Lost Revenue in 2016 from 2015 programs Lost Revenue in 2016 from 2015 programs Total Lost Revenues in 2016 from 2016 programs Total Lost Revenues in 2016 Forecast Lost Revenues in 2016																						\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,0000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$3.00000 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
LRAMVA in 2016 LRAMVA in 2016 2016 Savings Persisting in 2017 2016 Savings Persisting in 2017																						34,865,821 34,865,821		94,725	0	0		0			0		:	9	:	\$0.00
2016 Savings Persisting in 2015 2016 Savings Persisting in 2020																						34,865,821 34,866,212	0	94,773 87,468	0	0	0	ő	0	0	0	0	ě	ě	0	
Note: LDC to make note of key assumptions includ	led above																																			

Table 5-c. 2017 Lost Revenues Work Form		Autoriti Da.															
Program	Results Status	Net Europy Seafreg (NRM) Net Europy Seafreg Persistence (NRM) Net Europy Seafreg Persistence (NRM) Net Europy Seafreg (NR							Rate Allocation	ons for LRAMV	A .						
Legacy Framework	Status	2617 2018 2019 2028 2021 2022 2023 2024 2025 2026 2024 2025 2026 Multiplier 2017 2018 2019 2028 2021 2022 2023 2024 2025 2025	Residential	GS-SO KW	GS 50 TO 1,422 KW	GS 1,500 TO 4,929	Large User	Unmetered Scattered Load	treet Lighting			0			0	الجيا	Total
Residential Program Coupon Initiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Bi-Annual Retailer Event Initiative Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Appliance Retirement Initiative Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
HVAC Incentives Initiative Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential New Construction and Major Renovation Initiative Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Commercial & Institutional Program Emergy Audit Initiative Adjustment to 2017 savings	Verified True-up	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Efficiency: Equipment Replacement Incentive Indiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Direct Install Lighting and Water Heating Initiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
New Construction and Major Renovation Initiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Existing Building Commissioning Incentive Initiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Industrial Program Hoceas and Systems Upgrades initiatives - Project Incentive Initiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Process and Systems Upgrades Initiatives - 12 Monitoring and Targeting Initiative	Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															0%
Adjustment to 2017 savings Process and Systems Upgrades Initiatives -	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
There Manager Initiality Adjustment to 2017 savings Low Income Program	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Low Income Initiative Adjustment to 2017 savings	Verified True-up	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Aboriginal Conservation Program Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Program Enabled Savings Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation Fund Pilots Conservation Fund Pilot - EnerNOC Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Lobiawa Pilot Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation Fund Pilot - SEG Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Social Benchmarking Pilot Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation First Framework Residential Province-Wide Program Save on Energy Coupon Program	Verified	NAMES AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED ASSESSED AND ASSESSED ASS	100.00%														100%
Adjustment to 2017 savings Save on Energy Heating and Cooling	True-up	9/20/20 3/27/47 3/27/4		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2017 savings	Verified True-up	5.227,1/0 5.227,	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Save on Energy New Construction Program Adjustment to 2017 savings	Verified True-up	11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 10,000 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Save on Energy Home Assistance Program Adjustment to 2017 savings	Verified True-up	933,720 933,72	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Non-Residential Province-Wide Program Save on Energy Audit Funding Program Adjustment to 2017 savings		2417346 241734	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Adjustment to 2017 savings Save on Energy Retroft Program Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	100.00% 100.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Save on Energy Small Business Lighting	Verified	442,365 442,365 432,231 406,812 347,277 306,657 265,333 193,812 190,806 71,173 12 85 85 85 82 75 69 62 47 28 10	0.00%	100.00%	-24.90/8	2007	4404	0.00%		-200		240.0	2.00%	2007	W-WW-W	24076	100%
Program Adjustment to 2017 savings	True-up		0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

Savings Persisting in 2018																								33,295,990 33,295,990	442,365 439,231	116,353	0	0	0	0	0	0	0			0	
shution Rate in 2017. Revenue in 2017 from 2011 programs in 2017 from 2012 programs in 2017 from 2012 programs. Revenue in 2017 from 2013 programs. Revenue in 2017 from 2014 programs. Revenue in 2017 from 2014 programs. Revenue in 2017 from 2015 programs. Revenue in 2017 from 2015 programs. Revenue in 2017 from 2015 programs. It Loss Revenues in 2011 Loss Revenues in 2011 MVA in 2011 MVA in 2011																								\$0,00000 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$2,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1,00000 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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nto Hydro-Electric System Limited - - Large (Pilot Savings) stment to 2017 savings	Verified True-up				_	-		-	4	_			<u> </u>	12			-	\pm	-	-			-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
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r Hydro-Electric System Limited - Install - RTU Controls (Pilot Savings)	Verified			T	Т				T	T				12	Т			Т																			
natall - Hydronic (Pliot Savings nent to 2017 savings	Verified True-up							-		-			<u> </u>	12					-	-	-	-	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
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e Hydro Electricity Distribution Inc install - Hydronic ment to 2017 savings	Verified		İ		Ť				Í	Ť				12	Ť			Í		Ė		Ť	İ														
ra-on-the-Lake Hydro Inc Direct Energy Efficiency Measures for the flural Sector ment to 2017 savings	Verified True-up		-	4	_			ļ	4	4			ļ	12				_		ļ	-	_	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ment to 2017 savings a-on-the-Lake Hydro Inc Direct	True-up	-		-	-			1	+-				<u> </u>	12	-				-	<u> </u>			-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ner-Wilmot Hydro Inc Pilot - DCKV	Verified		T	Ŧ	Ŧ			1	Ŧ	Ŧ				12		T		Ŧ		T	П	-	1														
nee Wi-Fi Thermostat Pilot ment to 2017 savings	Verified True-up	78,80	70,00	2 78,		0	0	0			0	0	0			0	0	0	0 0	0	0	0 0		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ot sent to 2017 savings Staws Limited - Residential Demand	True-up	0				0	0	0			0	0	0	12		0	0	0	0 0	0	0	0 0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Staws Limited - Conservation Regulation (CVR) Leveraging AMI	Verified	0				0	0	0			0	0	٥	12		0	0	0	0 0	0	0	0 0	0														
utilities Corporation - Social narking Pilo nent to 2017 savings	Verified True-up				+			ļ.,	1				L.,	12	_				_	1			1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
fot ent to 2017 savings Utilities Corporation - Social	True-up		#	#	#			늗	#	#			트	12	#		=	#	#	丰		=	#	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ent to 2017 savings	True-up Verfled		Ŧ		Ŧ			-	Ŧ	-				12					-	F			-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ment to 2017 savings Utilities Ltd Re-Invest Pilo	True-up Verified		T	Ŧ					Ξ	=				12						Ξ				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Utilities Ltd Building Optimization	Verified			T					Т	T				12	T				T																		
sures Hydro Masiasauga Inc mance-Based Conservation Pilot an - Conservation Fund ment to 2017 savings	Verified True-up				I			ļ						12				\perp				\perp		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ment to 2017 savings	True-up	0	1.0			0	ŏ	1.0.			6	0	ő		-1-	0	.0.	0	0 0	1 0	0	0 0	ŏ	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Nation Conservation Local Program Iment to 2017 savings I Benchmarking Local Program	True-up	0	1240.5			0	0	1 0			0	9	0	0	#	ŏ.						0 0			0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ss Refrigeration Local Program ment to 2017 savings	Verified True-up	0	1 0			0	0	0		-	0 -	0		0	1	0						0 0			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ment to 2017 savings & Regional Programs	True-up		0											1 12		.0.	.0.		0 0	.0	0	0 0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
nent to 2017 savings n Energy Energy Manager Program	True-up Verified	538,33	75,00	9 75,	009	61,363	61,363	61,363	61,	363	0 1,363	61,363	61,363	12		32			12 12			12 12		0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Energy Monitoring & Targeting ment to 2017 savings	Verified	0	0		0	0	0	0			0	0	0			0			0 0			0 0															
n Energy Process & Systems des Program ment to 2017 savings	Verified True-up	0	0		0	0	0	0			0	0	0	12	1	0		0	0 0	0		0 0		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
in Energy Existing Building issioning Program ment to 2017 savings	Verified True-up	0	0		0	0	0	0			0	0	0	3	-	0	0	0	0 0			0 0		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
on Energy Existing Building																					.0.								0.00%								

Table 5-d. 2018 Lost Revenues Work Form		Return to top																																	
		Net Energy Savings (kWh)				Not Energy S	Savings Persis	stence (kWh)					Net Demand Savings (kW)			Net Peak Der	nand Saving	n Persistence	(kW)								Rate Alloc	ations for LRAI	MVA						
Program	Results Status	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Morthly Multiplier	2018	2019	2020	2021 200	2023	2024	2025 2026	2027	Residential	GS<50 kW	GS 50 TO 1,422 KW	GS 1,500 TO 4,929	Large User	Unmetered Scattered Load	Street Lighting								Total
Leoscy Framework Residential Program Coupon Initiative Adjustment to 2016 savings	Verified True-up		1	0	- 0	0	0	0	0	0	.0			1 .0 .1		0 0	1.0	1.0.1	0 0		200%	0.00%	0.00%	0.00%	kW	kWh.	kW .	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Bi-Annual Retailer Event Initiative Adjustment to 2015 savings	Verified True-up		-						-						Ť	-	Ť		-	i	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Appliance Retirement Initiative Adjustment to 2018 savings	Verified True-up		-												\exists		-	\Box			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
HVAC Incentives Initiative Adjustment to 2018 savings	Verified True-up																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential New Construction and Major Adjustment to 2018 savings Commercial & Institutional Program	Verified True-up																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
6 Energy Audit Initiative Adjustment to 2018 savings	Verified True-up		-									12				: 1:	1	1	: 1:	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Z Efficiency: Equipment Replacement Incentive Initiative Adjustment to 2018 savings	Verified True-up											12		Ш	\exists					Ш	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Direct Install Lighting and Water Heating Initiative Adjustment to 2016 savings	Verified True-up											12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
New Construction and Major Renovation Initiative Adjustment to 2018 savings	Verified True-up											12				-	1				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
52 Existing Building Commissioning Incentive Initiative Adjustment to 2018 savings	Verified True-up											3			\Box			Ш			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Industrial Program Process and Systems Upgrades Initiatives - Project Incentive Initiative Adjustment to 2015 savinos	Verfled True-up											12			Ī						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Process and Systems Upgrades Initiatives - 12 Monitoring and Targeting Initiative	Verified		Ť I									12	i i		T	Ħ	Ť	ĦΪ	Ť	Ħ															0%
Adjustment to 2018 savings	True-up							_				12	_		_	_	+-	-	_	_	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

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Process and Systems Upgrades hitlatives - therpy Manager initiative Adjustment to 2016 asvings	Verfled						.,			12																						0%
Energy Manager Initiative Adjustment to 2018 savings Low Income Program Low Income Initiative Adjustment to 2018 savings	True-up					-	1			12		-			+			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Onteres	Verified True-up					-												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Aboriginal Conservation Program Adjustment to 2018 savings Program Enabled Savings Adjustment to 2018 savings	Verified True-up Verified True-up		<u> </u>			+				0		-		_	#	+		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings Conservation Fund Pilots Conservation Fund Pilot - EnerNOC										0								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2018 savings	Verified True-up					4==				12		-		=	#		##	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Lobiase Plot Adjustment to 2018 savings	Verified True-up Verified					-		-		12		-		-	#	#		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation Fund Pilot - SEG Adjustment to 2018 savings Social Benchmarking Pilot Adjustment to 2018 savings	Verified True-up Verified True-up					+		-	-	12	=	-			+			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings Conservation First Framework	True-up					11:				12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Save on Energy Coupon Program Adjustment to 2018 savings	Verified True-up			H		-									-			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy Heating and Cooling Program Adjustment to 2018 savings	Verified True-up						-										-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy New Construction Program	Verified		i i			Ť					Ħ	÷			Ŧ																	0%
Adjustment to 2018 savings Save on Energy Home Assistance Program	True-up Verified											-						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings	True-up		<u> </u>	<u> </u>		1==		==	===			===	##	===	===	لتك		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	U.A
Non-Residential Province-Wide Program Save on Energy Audit Funding Program Adjustment to 2018 savings	Verified True-up		H	E		#			==	12		\equiv	\equiv	\equiv E		\pm		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy Retroft Program Adjustment to 2018 savings	Verified True-up					#				12	\equiv		#		H	\equiv		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy Small Business Lighting Program Adjustment to 2018 savings	Verified True-up									12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy High Performance New Construction Program Adjustment to 2018 savings	Verified									12																						0%
Adjustment to 2018 savings Save on Energy Existing Building Commissioning Program Adjustment to 2018 savings	True-up Verified		-	-		+				3	_	-	+-	-	÷	+-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings	True-up Verfied					-	-	==	-	3					#			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Save on Energy Process & Systems Uporades Procesm Adjustment to 2018 savings	True-up		<u> </u>	<u> </u>		١				12				_				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy Monitoring & Targeting Program Adjustment to 2018 savings	Verified True-up		-			1				12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Save on Energy Energy Manager Program Adjustment to 2018 savings	Verified True-up									12					T			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Local & Regional Programs Susiness Refrigeration Local Program Adjustment to 2018 savings		ļ																														0%
Adjustment to 2018 savings	Verified True-up Verified True-up		<u> </u>	<u> </u>		ļ				8				_	+		_	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
First Nation Conservation Local Program Adjustment to 2018 savings Social Benchmarking Local Program Adjustment to 2018 savings	True-up Verified True-up									0		븦			\pm			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings Pilot Programs	Тпин-ир					.,							-, -					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Pilot Programs Enersource Hydro Masissaugs Inc Performance-Based Conservation Pilot Program - Conservation Fund Adjustment to 2018 savings	Verified True-up			_						12	_	\perp	\perp	_				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
EnWin Utilities Ltd Building Optimization Plot Adjustment to 2018 savings	Verified		1			i				12		Ť	Ť																			0%
Adjustment to 2018 savings EnWin Utilities Ltd Re-Invest Pilo Adjustment to 2018 savings	True-up Verified True-up									12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2016 savings Horizon Utilities Corporation - ECM Furnace Motor Pilot Adjustment to 2018 savings	Verified		 	<u> </u>		+		\pm		12		÷	\pm	Ŧ	_		\pm	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings Horizon Utilities Corporation - Social	True-up Verfied		늗			₩	-	==		12		=		==	#	Ħ	##	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Benchmarking Pilo Adjustment to 2018 savings	True-up					+				12		_		-				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Hydro Ottaws Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot Adjustment to 2018 savings	Verified									12																						0%
Adjustment to 2018 savings Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	True-up Verified		_			+-	+	=	==	12	=	+	\pm	=	÷	Ħ	$\pm \pm 1$	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings	Тпин-ир		<u> </u>	L		1		_				_		_	+	+		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Kitchener-Wilmot Hydro Inc Pilot - DCKV Adjustment to 2018 savings	Verified True-up					1				12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Nisgara-or-the-Lake Hydro Inc Direct Install Energy Efficiency Measures for the Agricultural Sector Adjustment to 2018 savings	Verified					T		T		12		T		T	T																	0%
Agricultural Sector Adjustment to 2018 savings Chandle Hurbr Electricity Distribution in-	True-up					#=	4	==		12.		===		#	#			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Oakville Hydro Electricity Distribution Inc Direct Install - Hydroric Adjustment to 2018 savings	Verified True-up		-			+	+			12			-	_		+		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Oakville Hydro Electricity Distribution Inc Direct Install - RTU Controls Adjustment to 2018 savings	Verified True-up					1				12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savinos Adjustment to 2018 savings	Verified True-up									12	Ξĺ	I			T				0.00%	0.00%	0.00%	0.00%	0.00%			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	True-up Verified			<u> </u>				-		12	T	+			Ŧ		\pm	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2018 savings	Verified True-up		<u> </u>	-	L	1				12		_	+		4	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	U%
Toronto Hydro-Electric System Limited - PFP - Lance (Pilot Savings) Adjustment to 2018 savings	Verified True-up									12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2011		0				Ť		\equiv		Ŧ	•			Ħ	Ŧ				8	1	+	1						-	-		-	
Databulan Rahin in 2018 Loss Bowans in 2018 feet 2011 program Loss Bowans in 2018 feet 2011 program Loss Bowans in 2018 feet 2012 program Loss Bowans in 2018 feet 2012 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Bowans in 2018 feet 2019 program Loss Loss Bowans in 2014 Los																		\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$1,00 \$2,00 \$1,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Total Lost Revenues in 2011 Forecast Lost Revenues in 2011 LRAMVA in 2011																		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
2018 Savings Persisting in 2015 2018 Savings Persisting in 2020																		0	0	0	0	0	0	0	0	0	0		:	0		pa. 40
ote: LDC to make note of key assumptions indu																		· ·		-		- v										

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 5
Schedule 2
Attachment D
UPDATED
May 5, 2020
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Table 5-e. 2019 Lost Revenues Work For		Net Energy Savings (kWh)				Not Energy	Savings Peri	ilstence (kWh	0				Net Demand Savings (kW)			Not Peak Deman	i Savings F	Persistenc	o (kW)								Rate Allos	cations for LRAM	EVA.						
Program	Results Status	2013	2020	2021	2022	2023	2024	2025	2026	2027	2028	Monthly Multiplier	2019	2020	2021	2022 2023	2024	2025	2026 2027	2028	Residential	GS450 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,929	Large User	Unmetered Scattered Load	Street Lighting								Total
egacy Framework																					kWh	kWh	kW	kW	KW	kWh	kW		0			-	0	-	
Actual CDM Savings in 2011 Forecast CDM Savings in 2015			-					-			-			-	\rightarrow		\vdash	\rightarrow	-	-			- 0	0	0	-	- 0	0	0	0	0			- 0	=
Distribution (India in 2015 and Revenus in 2016 from 2011 programs and Revenus in 2016 from 2011 programs and Revenus in 2016 from 2012 programs and Revenus in 2016 from 2013 programs and Revenus in 2016 from 2015 programs and Revenus in 2016 from 2015 programs and Revenus in 2016 from 2015 programs and Revenus in 2016 from 2017 programs and Revenus in 2016 from 2017 programs and Revenus in 2016 from 2017 programs foot Load Revenus in 2016 from 2017 forecast Load Revenus in 2011 RAMMA in 2011																					\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00	\$2.00000 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$1.00 \$1.00 \$1.00 \$2.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$2.00 \$2.00 \$0.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
1019 Savings Pensisting in 2020																					0		0	0				0	0	0	0		0	0	
lote: LDC to make note of key assumptions incl	ded above																																		

Net Energy																																	
Savings (kW	r (h)			Not Energy S	Savings Persis	fence (kWh)					Net Demand Savings (kW)			Not Peak Dema	nd Savings	Persistenc	a (kW)								Rate Allos	cations for LRA	MVA						
Program Results Status 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Monthly Multiplier	2020	2021	2022	2023 2024	2025	2026	2027 20	2029			GS 50 TO 1,499 KW	4,222	Large User	Unmetered Scattered Load	Street Lighting								Total
gacy Framework																			kWh	kWh	kW.	×W.	kW	kWh	kW								
tual CDM Savings in 2021 0																					- 0												
recast CDM Savings in 2020													_																				
shirkulari Delai in 2020 firm 2011 programs of flowering in 2020 firm 2011 programs of flowering in 2020 firm 2011 programs of flowering in 2020 firm 2011 programs of flowering in 2020 firm 2014 programs of flowering in 2020 firm 2014 programs of flowering in 2020 firm 2014 programs of flowering in 2020 firm 2014 programs of flowering in 2020 firm 2017 programs of flowering in 2020 firm 2017 programs of flowering in 2020 firm 2018 programs of flowering in 2020 firm 2018 programs of flowering in 2020 firm 2019 programs of Last Revenues in 2020 firm 2020 programs of Last Revenues in 2020 firm 2020 fir																			\$0,0000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00

Note: LDC to make note of key assumptions included abov

Between to too

20.4534



LRAMVA Work Form: Carrying Charges by Rate Class

Version 4.0 (2020)

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User Inputs (Green)

Auto Populated Cells (White)

Instructions (Grey)

Instructions

- 1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. Monthly interest rates are used to calculate the variance on the carrying charges for LRAMVA. Starting from column I, the principal will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rate from column H to determine the monthly variances on carrying charges for each rate class by year.
- 2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.
- 3. Please calculate the projected interest amounts in the LRAMVA work form. Project carrying charges amounts included in Table 6-a should be consistent with the projected interest amounts included in the DVA Continuity Schedule. If there are additional adjustments required to the formulas to calculate the projected interest amounts, please adjust the formulas in Table 6-a accordingly.

Table 6. Prescribed Interest Rates

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

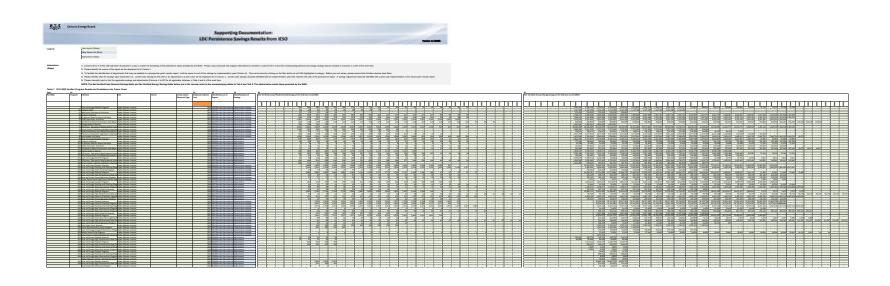
Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.50%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	2.17%
2019 Q1	2.45%
2019 Q2	2.18%
2019 Q3	2.18%
2019 Q4	2.18%
2020 Q1	2.18%
2020 Q2	2.18%
2020 Q3	2.18%
2020 Q4	2.18%

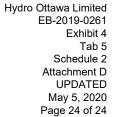
Ch	eck	OEB	website	2

| Month | Period | Quarter | Monthly
Rate | Residential | GS<50 kW
 | GS 50 TO 1,499
KW | GS 1,500 TO 4,999 | Large User
 | Unmetered
Scattered Load | Street
Lighting |
 | | |
 | | |
 | Total |
|--|--|--|--|--
--	--
--	--
--	--
--	--
--	--
--	--
Jan-11	2011
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Feb-11 | 2011 | Q1 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Mar-11 | 2011 | Q1 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Apr-11 | 2011 | Q2 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| May-11 | 2011 | Q2 | 0.12% | \$0.00 | \$0.00
 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
\$0.00
 | \$0.00 | \$0.00
\$0.00 | \$0.00
 | \$0.00
\$0.00 |
| Jun-11
Jul-11 | 2011 | Q2
Q3 | 0.12% | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00 | \$0.00
\$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
\$0.00
 | \$0.00 | \$0.00
\$0.00 | \$0.00
 | \$0.00
\$0.00 | \$0.00 | \$0.00
\$0.00
 | \$0.00 |
| Aug-11 | 2011 | Q3 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Sep-11 | 2011 | Q3 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Oct-11 | 2011 | Q4 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Nov-11 | 2011 | Q4 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Dec-11 | 2011 | Q4 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Total for 2011 | | | | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 |
| Amount Cleared | | | | *** |
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| Opening Balan
Jan-12 | 2011-2012 | Q1 | 0.12% | \$0.00
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| Jan-12
Feb-12 | 2011-2012 | Q1 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$0.00 | \$0.00 | \$0.00
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| Mar-12 | 2011-2012 | Q1 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$0.00 | \$0.00 | \$0.00
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| Apr-12 | 2011-2012 | Q2 | 0.12% | \$0.00 | \$0.00
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| May-12 | 2011-2012 | Q2 | 0.12% | \$0.00 | \$0.00
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 | \$0.00 | \$0.00 | \$0.00
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| Jun-12 | 2011-2012 | Q2 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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| Jul-12 | 2011-2012 | Q3 | 0.12% | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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| Aug-12 | 2011-2012 | Q3 | 0.12% | \$0.00 | \$0.00
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| Sep-12 | 2011-2012 | Q3 | 0.12% | \$0.00 | \$0.00
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Oct-12 Nov-12	2011-2012	Q4 Q4	0.12%	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
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| Dec-12
Total for 2012 | 2011-2012 | Q4 | 0.12% | \$0.00
\$0.00 | \$0.00 | | | \$0.00
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| Total for 2012 Amount Cleared | | Q4 | 0.12% | \$0.00
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Total for 2012	i	Q4	0.12%	
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| Total for 2012
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2011-2013 | Q1 | 0.12% | \$0.00
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2011-2013 | Q1
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| Total for 2012 Amount Cleared Opening Balan Jan-13 Feb-13 Feb-13 Amu-13 Apr-13 Jun-13 Jun-13 Jun-13 Aug-13 Aug-13 Aug-13 Oct-13 Oct-13 Total for 2013 Amount Cleared Opening Balan Jun-14 Apr-14 Jun-14 Jun-14 Jun-14 Jun-14 Aug-14 | 201-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2013 2011-2014 2011-2014 2011-2014 2011-2014 2011-2014 2011-2014 2011-2014 2011-2014 2011-2014 2011-2014 2011-2014 | Q1 | 0.12%
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| Jan-15 2011-2015
Feb-15 2011-2015 | Q1 | 0.12% | \$47.15 | \$19.00
 | \$23.89 | \$6.00 | \$3.46 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$100.29 |
| Mar-15 2011-2015 | Q1 | 0.12% | \$94.31 | \$39.53
 | \$47.78 | \$12.04 | \$6.91 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$200.57 |
| Apr-15 2011-2015 | Q2 | 0.09% | \$105.86 | \$44.38
 | \$53.63 | \$13.52 | \$7.76 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$225.13 |
| May-15 2011-2015 | Q2 | 0.09% | \$141.14 | \$59.17
 | \$71.50 | \$18.02 | \$10.34 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$300.18 |
| Jun-15 2011-2015 | Q2 | 0.09% | \$176.43 | \$73.96
 | \$89.38 | \$22.53 | \$12.93 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$375.22 |
| Jul-15 2011-2015 | Q3 | 0.09% | \$211.71 | \$88.75
 | \$107.25 | \$27.03 | \$15.52 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$450.27 |
| Aug-15 2011-2015 | Q3 | 0.09% | \$247.00 | \$103.54
 | \$125.13
\$143.01 | \$31.54
\$36.04 | \$18.10 | \$0.00
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| Sep-15 2011-2015
Oct-15 2011-2015 | Q3
Q4 | 0.09% | \$282.28
\$317.57 | \$118.33
\$133.13
 | \$143.01 | \$36.04 | \$20.69
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 | \$675.40 |
| Nov-15 2011-2015 | Q4 | 0.09% | \$352.85 | \$133.13
 | \$178.76 | \$45.05 | \$25.86 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$750.45 |
| Dec-15 2011-2015 | Q4 | 0.09% | \$388.14 | \$162.71
 | \$196.63 | \$49.56 | \$28.45 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$825.49 |
| Total for 2015 | | | \$2,364.45 | \$991.18
 | \$1,197.84 | \$301.91 | \$173.30 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$5,028.67 |
Amount Cleared			
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| Opening Balance for 2016 | | | \$2,364.45 | \$991.18
 | \$1,197.84 | \$301.91 | \$173.30 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$5,028.67 |
| Jan-16 2011-2016 | Q1 | 0.09% | \$423.43 | \$177.50
 | \$214.51
\$214.51 | \$54.07
\$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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\$900.53 |
| Feb-16 2011-2016
Mar-16 2011-2016 | Q1
Q1 | 0.09% | \$423.43
\$423.43 | \$177.50
\$177.50 | \$214.51
\$214.51 | \$54.07
\$54.07 | \$31.03
\$31.03 | \$0.00
\$0.00 | \$900.53 |
| Apr-16 2011-2016 | 02 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$0.00 | \$0.00
 | \$900.53 |
| May-16 2011-2016 | Q2 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
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 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Jun-16 2011-2016 | Q2 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Jul-16 2011-2016 | Q3 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Aug-16 2011-2016 | Q3 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Sep-16 2011-2016 | Q3 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Oct-16 2011-2016 | Q4 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Nov-16 2011-2016
Dec-16 2011-2016 | Q4
Q4 | 0.09% | \$423.43
\$423.43 | \$177.50
\$177.50
 | \$214.51
\$214.51 | \$54.07
\$54.07 | \$31.03
\$31.03 | \$0.00
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| Total for 2016 | Ų4 | 0.09% | \$423.43
\$7,445.56 | \$1/7.50
\$3,121.18
 | \$214.51
\$3,771.94 | \$54.07
\$950.70 | \$31.03
\$545.70 | \$0.00
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 | \$900.53
\$15,835.08 |
| Amount Cleared | | | ør,440.0b | φυ, 121.10
 | φJ,111.84 | \$95U.7U | \$343.70 | \$0.00
 | ŞU.UU | \$U.UU | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | #10,000.08 |
| Opening Balance for 2017 | | | \$7,445,56 | \$3,121,18
 | \$3,771,94 | \$950.70 | \$545.70 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$15,835,08 |
| Jan-17 2011-2017 | Q1 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$900.53 |
| Feb-17 2011-2017 | Q1 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Mar-17 2011-2017 | Q1 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Apr-17 2011-2017 | Q2 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| May-17 2011-2017 | Q2 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Jun-17 2011-2017 | Q2 | 0.09% | \$423.43 | \$177.50
 | \$214.51
\$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53
\$900.53 |
| Jul-17 2011-2017
Aug-17 2011-2017 | Q3
Q3 | 0.09% | \$423.43
\$423.43 | \$177.50
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 | \$900.53 |
| Sep-17 2011-2017 | Q3 | 0.09% | \$423.43 | \$177.50
 | \$214.51 | \$54.07 | \$31.03 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$900.53 |
| Oct-17 2011-2017 | Q4 | 0.13% | \$577.40 | \$242.05
 | \$292.51 | \$73.73 | \$42.32 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$1,228.00 |
| Nov-17 2011-2017 | Q4 | 0.13% | \$577.40 | \$242.05
 | \$292.51 | \$73.73 | \$42.32 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$1,228.00 |
| Dec-17 2011-2017 | Q4 | 0.13% | \$577.40 | \$242.05
 | \$292.51 | \$73.73 | \$42.32 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00
 | \$1,228.00 |
| Total for 2017 | | | \$12,988.59 | \$5,444.82
 | \$6,580.06 | \$1,658.47 | \$951.96 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
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 | \$27,623.90 |
Amount Cleared			
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| Opening Balance for 2018 | | | \$12,988.59 | \$5,444.82
 | \$6,580.06 | \$1,658.47 | \$951.96 | \$0.00
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 | \$27,623,90 |
| Jan-18 2011-2018 | | | | 40,777.02
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 | | \$0.00 | \$0.00
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| | Q1 | 0.13% | \$577.40 | \$242.05
 | \$292.51 | \$73.73 | \$42.32 | \$0.00
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Feb-18 2011-2018	Q1	0.13%	\$577.40 \$577.40	\$242.05 \$242.05	\$292.51 \$292.51	\$73.73 \$73.73	\$42.32 \$42.32	\$0.00 \$0.00	\$1,228.00 \$1,228.00
Feb-18 2011-2018 Mar-18 2011-2018	Q1 Q1	0.13% 0.13%	\$577.40 \$577.40 \$577.40	\$242.05 \$242.05 \$242.05	\$292.51 \$292.51 \$292.51	\$73.73 \$73.73 \$73.73	\$42.32 \$42.32 \$42.32	\$0.00 \$0.00 \$0.00	\$1,228.00 \$1,228.00 \$1,228.00
Feb-18 2011-2018 Mar-18 2011-2018 Apr-18 2011-2018	Q1 Q1 Q2	0.13% 0.13% 0.16%	\$577.40 \$577.40 \$577.40 \$727.52	\$242.05 \$242.05 \$242.05 \$304.98	\$292.51 \$292.51 \$292.51 \$368.57	\$73.73 \$73.73 \$73.73 \$92.89	\$42.32 \$42.32 \$42.32 \$53.32	\$0.00 \$0.00 \$0.00 \$0.00	\$1,228.00 \$1,228.00 \$1,228.00 \$1,547.28
Feb-18 2011-2018 Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018	Q1 Q1 Q2 Q2	0.13% 0.13% 0.16% 0.16%	\$577.40 \$577.40 \$577.40 \$727.52 \$727.52	\$242.05 \$242.05 \$242.05 \$304.98 \$304.98	\$292.51 \$292.51 \$292.51 \$368.57 \$368.57	\$73.73 \$73.73 \$73.73 \$92.89 \$92.89	\$42.32 \$42.32 \$42.32 \$53.32 \$53.32	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1,228.00 \$1,228.00 \$1,228.00 \$1,547.28 \$1,547.28
Feb-18 2011-2018 Mar-18 2011-2018 Apr-18 2011-2018	Q1 Q1 Q2	0.13% 0.13% 0.16%	\$577.40 \$577.40 \$577.40 \$727.52 \$727.52 \$727.52	\$242.05 \$242.05 \$242.05 \$304.98	\$292.51 \$292.51 \$292.51 \$368.57 \$368.57 \$368.57	\$73.73 \$73.73 \$73.73 \$92.89	\$42.32 \$42.32 \$42.32 \$53.32 \$53.32 \$53.32	\$0.00 \$0.00 \$0.00 \$0.00	\$1,228.00 \$1,228.00 \$1,228.00 \$1,547.28
Feb-18 2011-2018 Mar-18 2011-2018 Apr-18 2011-2018 Apr-18 2011-2018 Jun-18 2011-2018	Q1 Q1 Q2 Q2 Q2	0.13% 0.13% 0.16% 0.16% 0.16%	\$577.40 \$577.40 \$577.40 \$727.52 \$727.52	\$242.05 \$242.05 \$242.05 \$304.98 \$304.98 \$304.98	\$292.51 \$292.51 \$292.51 \$368.57 \$368.57	\$73.73 \$73.73 \$73.73 \$92.89 \$92.89 \$92.89	\$42.32 \$42.32 \$42.32 \$53.32 \$53.32	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1,228.00 \$1,228.00 \$1,228.00 \$1,547.28 \$1,547.28 \$1,547.28 \$1,547.28 \$1,547.28
Feb-18 2011-2018 Mar-18 2011-2018 Apr-18 2011-2018 May-18 2011-2018 Jun-18 2011-2018 Jul-18 2011-2018 Aug-18 2011-2018 Aug-18 2011-2018	Q1 Q1 Q2 Q2 Q2 Q2 Q3 Q3 Q3	0.13% 0.13% 0.16% 0.16% 0.16% 0.16% 0.16% 0.16% 0.16%	\$577.40 \$577.40 \$577.40 \$727.52 \$727.52 \$727.52 \$727.52 \$727.52 \$727.52 \$727.52	\$242.05 \$242.05 \$242.05 \$304.98 \$304.98 \$304.98 \$304.98 \$304.98 \$304.98					
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| Feb-18 2011-2018 Mai-18 2011-2018 Api-18 2011-2018 Api-18 2011-2018 Jul-18 2011-2018 Jul-18 2011-2018 Aug-18 2011-2018 Aug-18 2011-2018 Cd-18 2011-2018 Dec-18 2011-2018 Dec-18 2011-2018 Total for 2018 | Q1
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Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment D UPDATED May 5, 2020 Page 23 of 24







LRAMVA Work Form: Documentation for Streetlighting Projects

Version 4.0 (2020)

Legend

User Inputs (Green)

Instructions

Please provide documentation and/or data to substantiate program savings that were not provided in the IESO's verified results reports (i.e., streetlighting projects).

Distributors are encouraged to provide data in the following format, and complete a separate set of following tables for each project. The tables below are meant to be an example. Distributors should complete the tables based on the actual project details. Please create the necessary links to Tab 4/5 and tabulations within this LRAMVA workform to calculate the LRAMVA amounts. Alternatively, LDCs may submit a separate attachment with the project level details for billed demand by type of bulb.

Table 8-a: Name of Muncipality

Summary of Project #1

	Actual los	t revenue base	d on kW billing	
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	а	ь	c	b*c
Jan 20xx	0.00			
Feb 20xx	0.00	0.00		
Mar 20xx				
Apr 20xx				
May 20xx				
June 20xx				
Jul 20xx				
Aug 20xx				
Sep 20xx				
Oct 20xx	1			
Nov 20xx				
Dec 20xx				
Total	1			
Persistence i	n 20XX			
Persistence i	n 20XX			
Persistence i	n 20XX			
Doroistoneo i	- 20VV			

Details of Project #1 (Month, Year)

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW
	d	e	d*e
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Fotal		l	0.00

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d 1	e 1	d,*e
	1		
	1		
	1		
	_		
Total			0.00



Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 4.0 (2020)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	Tables 1-a and 1-b provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	Tables A-1 and A-2 include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	Tables 2-a, 2-b and 2-c include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	Tables 3-a and 3-b include the distribution rates that are used to calculate lost revenues.
3-a. Rate Class Allocations	A blank spreadsheet is provided to allow LDCs to populate distributor specific rate class percentages to allocate actual CDM savings to different customer classes.
4. 2011-2014 LRAM	Tables 4-a, 4-b, 4-c and 4-d include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	Tables 5-a, 5-b, 5-c and 5-d include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	Table 6-b includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Report	A blank spreadsheet is provided to allow LDCs to populate with CDM savings persistence data provided by the IESO.
8. Streetlighting	A blank spreadsheet is provided to allow LDCs to populate data on streetlighting projects whose savings were not provided by the IESO in the CDM Final Results Report (i.e., streetlighting projects).

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment E UPDATED May 5, 2020 Page 2 of 22
While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the esults.

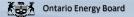


LRAMVA Work Form: Instructions

Version 4.0 (2020)

Tab	Instructions									
LRAMVA Checklist/Schematic Tab	The LRAMVA work form was created in a generic manner for use by all LDCs. There are some elements that are not applicable at this time (i.e. 2019 and 2020 related components) but have been included in an effort to avoid major updates in the future. Distributors should follow the checklist, which is referenced in this tab of the work form and listed below:									
	o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a.									
	o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form.									
	o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved.									
	o Include a copy of initiative-level persistence savings information that was verified by the IESO. Persistence information is available upon request from the IESO.									
	o Apply the IESO verified savings adjustments to the year it relates to. For example, savings adjustments to 2015 programs will be provided to LDCs with the 2016 Final Results Report. The 2015 savings adjustments should be included in the 2015 verified savings portion of the work form.									
	o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable.									
	o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a.									
Tab 1. LRAMVA Summary	Distributors are required to report any past approved LRAMVA amounts along with the current LRAMVA amount requested for approval. There are separate tables indicating new lost revenues and carrying charges amounts by year and the totals for rate rider calculations.									
Tab 1-a. Summary of Changes	Distributors should list all significant changes and changes in assumptions in the generic work form affecting the LRAMVA.									
Tab 2. LRAMVA Threshold	Distributors should use the tables to display the LRAMVA threshold amounts as approved at a rate class level. This should be taken from the LDC's most recently approved cost of service application.									
Tab 3. Distribution Rates	Distributors should complete the tables with rate class specific distribution rates and adjustments as applicable.									
Tab 3-a. Rate Class Allocations	A tab is provided to allow LDCs to include documentation or analysis on how rate class allocations for actual CDM savings were determined by customer class and program each year. The rate class allocations would support the LRAMVA rate class allocation figures used in Tabs 4 and 5.									
Tabs 4 and 5 (2011-2020)	Distributors should complete the lost revenue calculation for 2011-2014 program years and 2015-2020 program years, as applicable, by undertaking the following:									
	o Input or manually link the savings, adjustments and program savings persistence data from Tab 7 (Persistence Report) to Tabs 4 and 5. As noted earlier, persistence data is available upon request from the IESO.									
	o Ensure that the IESO verified savings adjustments apply to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table.									
	o Confirm the monthly multipliers applied to demand savings. If a different monthly multiplier is used than what was confirmed in the LRAMVA Report, provide rationale in Tab 1-a and highlight the new monthly multiplier that has been used.									
	o Input the rate class allocations by program and year to allocate actual savings to customers. If a different allocation is proposed for adjustments, LDCs must provide the supporting rationale in Tab 1-a and highlight the change.									
	o Provide assumptions about the year(s) in which persistence is captured in the load forecast via the "Notes" section of each table and adjust what is included in the LRAMVA totals, as appropriate.									
Tab 6. Carrying Charges	Distributors are requested to calculate carrying charges based on the methodology provided in the work form. This includes updating Table 6 as new prescribed interest rates for deferral and variance accounts become available and entering any collected interest amounts into the "Amounts Cleared" row to calculate outstanding variances on carrying charges.									
Tab 7. Persistence Report	Persistence savings report(s) provided by the IESO should be included for the relevant years in the LRAMVA work form. Tab 7 has been created consistently with the IESO's persistence report.									
Tab 8. Streetlighting	A tab is provided to ensure LDCs include documentation or data to support projects whose program savings were not provided by the IESO (i.e., streetlighting projects).									

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LRAMVA Work Form: Checklist and Schematic

Version 4.0 (2020)

General Note on the LRAMVA Model

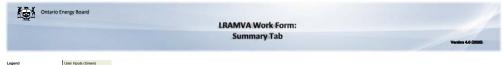
The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA (\$) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Important Checklist
o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a
o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form
o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved
o Include a copy of initiative-level persistence savings information that was verified by the IESO in Tab 7. Persistence information is available upon request from the IESO
o Apply the IESO verified savings adjustments to the year it relates to.
o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable
o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports included in Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL) Tables 1-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports included in Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL) Tables 1-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	Determined by the LDC
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"		
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c	
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets
LRAMVA (\$) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"		Tables 1-a and 1-b
+ Carrying Charges (\$) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6	Table 6-a
Total LRAMVA (\$) by Rate Class	Tab "1. LRAMVA Summary"		



Auto Populated Cells (White) Instructions (Grey)

LDC Name

EB-2015-0004 Previous LRAMVA Application (EB#) 2016 COS/IRM Application Application of Previous LRAMVA Claim Period of LRAMVA Claimed in Previous Application 2011-2013

B. Current LRAMVA Application Current LRAMVA Application (EB#) EB-2019-0261 2021-2025 CIR Application of Current LRAMVA Claim Period of New LRAMVA in this Application 2014-2016 Period of Rate Recovery (# years) Actual Lost Revenues (\$) 2,107,598

Forecast Lost Revenues (\$)

LRAMVA (\$) for Account 1568

Carrying Charges (\$)

1,334,272

61,821

Table 1-a. LRAMVA Totals by Rate Class

Please input the customer rate classes applicable to the LDC and associated billing units (kWh or kW) in Table 1-a below. This will update all tables throughout the workform

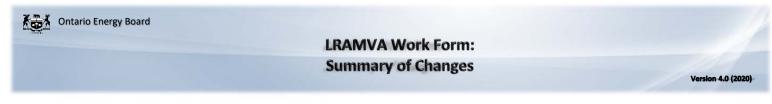
The LRAMWA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or RM Rate Generator Model. Please also ensure that the principal amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMWA claim. Column F of Table 1-a should include projected coursing changes amounts and determined on a rate class basis form Table 1-b above.

NOTE: If the LDC has more than 14 customer classes in which CDM savings was allocated LDCs must contact OEB staff to make adju-

Customer Class	Billing Unit	Principal (\$)	Carrying Charges (\$)	Total LRAMVA (\$)		
Residential	kWh	\$725,450	\$57,994	\$783,443		
GS<50 kW	kWh	\$137,640	\$11,003	\$148,643		
GS 50 TO 1,499 KW	kW	-\$317,598	-\$25,389	-\$342,987		
GS 1,500 TO 4,999	kW	\$84,284	\$6,738	\$91,021		
Large User	kW	\$131,249	\$10,492	\$141,742		
Unmetered Scattered Load	kWh	\$0	\$0	\$0		
Street Lighting	kW	\$12,302	\$983	\$13,285		
		\$0	\$0	\$0		
		\$0	\$0	\$0		
		\$0	\$0	\$0		
		\$0	\$0	\$0		
		\$0	\$0	\$0		
		\$0	\$0	\$0		
		\$0	\$0	\$0		
Total		\$773,326	\$61.821	\$835,147		

Incom Inc. A limited belowing below growing reason in the contract and the contract below growing and in the contract and the contract below growing and in the contract and the contract below growing and in the contract and the contract below growing and in the contract and the contract below growing and in the contract and the contract below growing and in the contract below growing and in the contract below growing and in the contract below growing and in the contract below growing and growing and growing and growing growing and growing growi

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
		kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
2011 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2011 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2012 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2012 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2013 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2013 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared										1					1	1
2014 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2014 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared											1	1	1		1	1
2015 Actuals	П	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2015 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared					1						J		1	I	1	1
2016 Actuals		\$1,048,242.30	\$369,342.79	\$462,178.20	\$84,283.64	\$131,249.42	\$0.00	\$12,301.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,107,598.11
2016 Forecast		(\$322,792.50)	(\$231,703.20)	(\$779,776.35)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,334,272.05)
Amount Cleared															l	
2017 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2017 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared	L		l							l	J		I	I		
2018 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2018 Forecast		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
Carrying Charges		\$57,993.67	\$11,003.14	(\$25,389.32)	\$6,737.77	\$10,492.30	\$0.00	\$983.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$61,820.97
Total LRAMVA Balance		\$783,443	\$148,643	-\$342,987	\$91,021	\$141,742	\$0	\$13,285	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$835,147



Legend User Inputs (Green)

Drop Down List (Blue)

Instructions (Grey)

Table A-1. Changes to Generic Assumptions in LRAMVA Work Form

Please document any changes in assumptions made to the generic inputs of the LRAMVA work form. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between current year savings and prior year savings adjustments; inclusion of additional adjustments affecting distribution rates; etc. All changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	7. Persistence Data	Column D	Change program name from persistence report to match tables on Tab 5 Loblaw P4P	To have look-up work from Tab 5. to Tab 7.
2	7. Persistence Data	Column D	Changed Save on Energy Heating & Cooling Program to Save on Energy Heating and	To have look-up work from Tab 5. to Tab 7.
3	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 36 with Save on Energy Instant Discount Program	Program missing
4	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 37 with Home Depot Home Appliance Market Uplift	Program missing
5	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 43 with Swimming Pool Efficiency Program	Program missing
6	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 43 with Street Lighting	to bring the Street Lighting savings in
7				
8				
9				
10				
etc.				

Table A-2. Updates to LRAMVA Disposition

Please document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
etc.		, and the second		



User Inputs (Green) Drop Down List (Blue) Auto Populated Cells (White) Instructions (Grey)

Table 2-a. LRAMVA Threshold

Please provide the LPAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LPAMVA claim. The LPAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-1. If a manual update is required to reflect a different allocation of forecast savings that was approved by the CEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	27,452,000	16,725,000	10,727,000												
kW	191,563			191,563											
														•	
Summary		16725000	10727000	191563	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold

2016 2016-2020 Settlement Agreement, p. 57 & 58

Table 2-b. LRAMVA Threshold

Please provide the LRAMIVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMIVA charm. The LRAMIVA threshold should generally be consistent with the annualized savings targets developed from Appendix 24. If a manual update is required to reflect a offerent allocation of forecast savings that was approved by the OEB, please note the charges and provide rationals for the charge in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0														
kW	0														
-					•										
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Source of Threshold

Table 2-c. Inputs for LRAMVA Thresholds

Table 2-c. imputs for Lowaria Triesmous

Please complied a Pole 2-below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option. The LRAMVA threshold values in Table 2-c will be auto-populated in Table 3-c will be auto-populated in Table

Year	LRAMVA Threshold	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	2016	16,725,000	10,727,000	191,563	0	0	0	0	0	0	0	0	0	0	0
2017		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0
							-								

Correct demand values shown as CDM saving in Settlement Chart

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment E UPDATED May 5, 2020 Page 8 of 22



Table 3. Inputs for Distribution Rates and Adjustments by Rate Cla

Please complete Table 3 with the rate class specific distribution rates that pertain to the years of the LRAMVA disposition. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bur. Table 3 will convert the distribution rates to a calcularity are rate (January to December) based on the number of months entered in now 10 of each rate year starting from January to the start of the LDC's rate year. Please enter 0 in row 10, if the rate year begins on January 1. If there are additional adjustments (i.e., one) adjusted to Table 3, a placefully rated as Jackstream (i.e., one) adjustments (i.e., one) adjusted to Table 3, a placefully rated as Jackstream (i.e., one) adjustments (i.e., one) adjusted to Table 3, a placefully rated as Jackstream (i.e., one).

	Billing Unit	EB-2009-XXXX	EB-2010-XXXX	EB-2011-XXXX	EB-2012-XXXX	EB-2013-XXXX	EB-2014-0085	EB-2015-0004	EB-2016-0084	EB-2017-XXXX	EB-2018-XXXX	EB-2019-XXXX	EB-2020-XXXX
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)													
Period 2 (# months)		12	12	12	12	12	12	12	12	12	12	12	12
Residential Rate rider for tax sharing					ļ			\$ 0.0193					
Rate rider for foregone revenue	kWh												
Other Adjusted rate		s -	s -	1 :	s ·	8 .	s -	S 0.0193 S 0.0193	s -	s -	\$	s -	
Calendar year equivalent			\$ -	\$ -	\$.	\$.	\$.	\$ 0.0193	\$ -	3 .	\$.	\$.	
GS<50 kW								\$ 0.0216					
Rate rider for foregone revenue	kWh							ļ					
Adjusted rate Calendar year equivalent		s	\$	\$ · ·	\$	\$ -	\$	S 0.0216	\$ -	\$	l S	S -	
Rate rider for tax sharing								\$ 4.0706					
Rate rider for foregone revenue	KW												
Adjusted rate		\$	\$	\$ -	\$ -			\$ 4.0706	\$ -	\$	\$		
Calendar year equivalent			s -	s -	\$	\$	s -	\$ 4.0706	\$ -	\$	\$	s -	
GS 1,500 TO 4,999							I	\$ 3.6541					1
Rate rider for tax sharing Rate rider for forecome revenue	w												
Other	NAT.												
Adjusted rate Calendar year equivalent	L	s -		s -	\$ ·	\$ -	s -	\$ 3.6541 \$ 3.6541	\$ -	s -	s -	s -	L
					 			3.4742					
Rate rider for foregone revenue	kW												
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Calendar year equivalent			s -	s -	s -	\$ -	s -	\$ 3.4742	s -		\$.	s -	
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Rate rider for tax sharing													
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	L							\$ 0.0219	\$				
					s -	\$ -							
Street Lighting								\$ 5.3171					
Rate rider for foregone revenue	kW												
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Calendar year equivalent			\$	<u> </u>	\$	\$	\$:	\$ 5.3171	\$	\$	\$	\$.	·
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Rate rider for tax sharing													
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Adjusted rate		s -	\$ -		S -	s -					s -	s -	
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Rate rider for tax sharing								 					
Rate rider for foregone revenue	0												
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Rate rider for foregone revenue													
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10 10 10 10 10 10 10 10													
the control of property of the control of the contr													
Rate rider for foregone revenue	0												
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Caremoar year equivarent					•			•	• -			•	

Note: LDC to make note of adjustments made to Table 3 to accommodate the LDC's specific circumstar

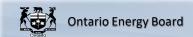
Table 3-a. Distribution Rates by Rate Clas

table 3-a below autopopulates the average distribution rates from Table 3. Pease ensure that the distribution rates relevant to the years of the LRAMVA disposition are used. Please clear the rates related to the year(s) that are not part of the LRAMVA claim.

The distribution rates that remain in Table 3-a will be used in Tabs 4 and 5 of the work form to calculate actual and forecast lost revenues. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas from Table 3-a, as well as the distribution rate links in Tabs 4 and

Year	Residential	G9<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
	kWh	kWh	kW	kW	WV.	kWh	kW	0	0	0	0	0	0	
2011	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2012	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2013	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2014	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2015	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2016	\$0.0193	\$0.0216	\$4.0706	\$3.6541	\$3.4742	\$0.0219	\$5.3171	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2017	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2018	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Note: I DC to make note of the years rem	oved from this table	whose distribution ra	ites are not part of the	e I RAMVA disnosition										

Hydro Ottawa Limited EB-2019-0261 Exhibit 4 Tab 5 Schedule 2 Attachment E UPDATED May 5, 2020 Page 9 of 22



LRAMVA Work Form: Determination of Rate Class Allocations

Version 4.0 (2020)

Instructions

LDCs must clearly show how it has allocated actual CDM savings to applicable rate classes, including supporting documentation and rationale for its proposal. This should be shown by customer class and program each year.

This information is provided in UPDATED Exhibit 4-5-2: LRAM Variance Account

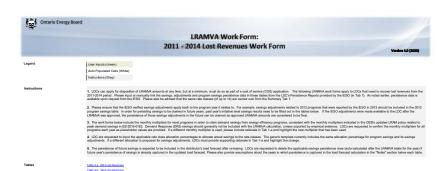


	Table 4-d. 2014	Lost Revenues																														
Table 4-a. 2011 Lost Revenues Work For		Net Energy		No.	f	ringa Persist	leann (MM)				Net Deman	1		Net Peak Dema	of Carleso Rea	datasea (MA)		1						Bata Allan	ations for LRAI	10/A						
Program	Results Status	Savings (kWh)						2018 201	,	Monthly fultiplier	Savings (kV		1				2019 2020		GS<50 kW	GS 50 TO 1.459	GS 1,500 TO		Unmetered	Street Lighting	applia for DOA	**						Ē
Consumer Program		2011	2012 201	3 2014	2015	2016	2017	2018 201	9 2020		2011	2012	2013	2014 2015	2016 2	017 2011	2019 2020	Residential kWh	GS450 KW	KW	4,999 VW	Large User	Load	Street Lighting	0	0	0	0			Total	4
Appliance Retirement Adjustment to 2011 savings	Verified True-up																		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2 Appliance Exchange Adjustment to 2011 savings	Verified True-up				T								1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3 HVAC Incentives Adjustment to 2011 savings	Verified True-up				E													0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Conservation Instant Coupon Booklet Adjustment to 2011 savings	Verified True-up				F	-	=T											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
5 Bi-Annual Retailer Event Adjustment to 2011 savings	Verified True-up			-									+					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
g Retailer Co-op Adjustment to 2011 savings	Verified True-up			-									+					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7 Residential Demand Response Adjustment to 2011 savings	Verified True-up			===				_					-					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8 Residential Demand Response (HD) Adjustment to 2011 savings	Verified True-up				Ė													0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Residential New Construction Adjustment to 2011 savings	Verified True-up				È								Ħ					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Business Program to Retroft	Verified				-																										0%	
Adjustment to 2011 savings	True-up Verified				1					12			4					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11 Direct Install Lighting Adjustment to 2011 savings	True-up				_					12			ا ۔۔۔					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12 Building Commissioning Adjustment to 2011 savings	Verified True-up			1	1					3			<u> </u>					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
New Construction Adjustment to 2011 savings	Verified True-up									12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14 Energy Audit Adjustment to 2011 savings	Verified True-up				1				+	12			+ ::-					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
55 Small Commercial Demand Response Adjustment to 2011 savings	Verified True-up			-					1				H					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Small Commercial Demand Response (IHD) Adjustment to 2011 savings	Verified True-up																	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%	
17 Demand Response 3 Adjustment to 2011 savings	Verified																														0%	
Industrial Program Process & System Upgrades	True-up																	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2011 savings	Verified True-up									12			٠.					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
to Monitoring & Targeting Adjustment to 2011 savings	Verified True-up									12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20 Energy Manager Adjustment to 2011 savings	Verified True-up									12			1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21 Retrofit Adjustment to 2011 savings	Verified True-up			1						12 12								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22 Demand Response 3 Adjustment to 2011 savings	Verified True-up			-					1									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Home Assistance Program 25 Home Assistance Program Adjustment to 2011 savings	Verified True-up			-			_					-	-					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Aboriginal Program Home Assistance Program	Verified												-							W.MV.W	20070	200.0		2.00.00	2007	2.00.00		2000	2.00.0	2.00.0	0%	
Adjustment to 2011 savings	True-up							_				4	4=					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25 Direct Install Lighting Adjustment to 2011 savings	Verified True-up									0						_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Pre-2011 Programs completed in 2011 25 Electricity Retrofit Incentive Program Adjustment to 2011 savings	Verified True-up			-	Е					12		-	+:-					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27 High Performance New Construction Adjustment to 2011 savings	Verified True-up					-			-	12			-					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28 Toronto Comprehensive Adjustment to 2011 savings	Verified True-up									0								0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20 Multifamily Energy Efficiency Rebates Adjustment to 2011 savings	Verified True-up			-	-	-		-	-	0			-			_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
20 LDC Custom Programs Adjustment to 2011 savings	Verified True-up			-	F				-	0			=					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Other	Verified									0																					0%	
31 Program Enabled Savings Adjustment to 2011 savings 32 Time of Use Savings	True-up Verified			#	H			-		0						-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
u one one ge	venned	L																													0%	-

Adjustment to 2011 savings	True-up																			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
33 LDC Pilots Adjustment to 2011 savings	Verified True-up			#==						12		=		#					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2011 Forecast CDM Savings in 2011		#		#			_	\pm		_					$\Rightarrow \Rightarrow$	=		\pm	0	0	0	- 0	0	0	0	0	0	0	0	ů			
Distribution Rate in 2011 Lost Revenue in 2011 from 2011 programs Forecast Lost Revenues in 2011 LRAMVA in 2011																			\$0.00000 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00
2011 Swings Persisting in 2012 2011 Swings Pensisting in 2013 2011 Swings Pensisting in 2014 2011 Swings Pensisting in 2014 2011 Swings Pensisting in 2015 2011 Swings Pensisting in 2015 2011 Swings Pensisting in 2019 2011 Swings Pensisting in 2019 2011 Swings Pensisting in 2019 2011 Swings Pensisting in 2019																			0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	
note. Loc to make note of key assumptions include	led above																		0		0	0			0	0					- 0	-	
Table 4-b. 2012 Lost Revenues Work Form		Retu	Net Energy avings (kWh)		Net Er	nergy Savings P	Persistence (kV	N(b)			Net Deman Savings (kV	4		Net Peak D	emand Savings	Peralatence (h	wo								Rate Allo	cations for LRA	MVA				_	_	
	Results Status		2012 2013	2014	2015	2016 20	2018	2019	2020 2021	Monthly Multiplie	2012	2013	3 2014	2015 2	2017	2018 2	019 2020	2021	Residential	GS-50 kW	GS 50 TO 1,429 KW	GS 1,500 TO 4,599	Large User	Unmetered Scattered Load	Street Lighting								Total
Consumer Program 1 Appliance Retirement Adjustment to 2012 savings	Verified True-up																		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Appliance Exchange Adjustment to 2012 savings	Verified True-up			-	1												_		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3 HVAC Incentives Adjustment to 2012 savings	Verified True-up			-	-		_	\pm		-		\pm		-			_	-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation Instant Coupon Booklet Adjustment to 2012 savings	Verified True-up			-	-					-		\pm		1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
5 Bi-Annual Retailer Event Adjustment to 2012 savings	Verified True-up			-						_		\exists							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
6 Retailer Co-op Adjustment to 2012 savings	Verified True-up	Ε		-	H					-									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Z Residential Demand Response Adjustment to 2012 savings	Verified True-up			-	-			-		-		=		-				-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
8 Residential Demand Response (HD) Adjustment to 2012 savings	Verified True-up			=			Ŧ	F	Ŧ			Ŧ		Ŧ		F	Ŧ		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential New Construction Adjustment to 2012 savings	Verified True-up			i i			Ť.					Ė					i		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Business Program Retrofit Adjustment to 2012 savings	Verified True-up									12		+		=					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
11 Direct Install Lighting Adjustment to 2012 savings	Verified True-up									12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
12 Building Commissioning Adjustment to 2012 savings	Verified True-up			-	-		-			3 3		\pm	-				=		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2012 savings New Construction Adjustment to 2012 savings	Verified True-up			+=						12							=																0%
Adjustment to 2012 savings Energy Audit Adjustment to 2012 savings				-						12		-							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Verified True-up			-			-		_	12	-	부		_			#		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Small Commercial Demand Response Adjustment to 2012 savings Small Commercial Demand Response (HD)	Verified True-up	_		<u> </u>		_			_			4					4		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Small Commercial Demand Response (IHD) 86 Adjustment to 2012 savings	Verified True-up			+				-				+						-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Demand Response 3 Adjustment to 2012 savings	Verified True-up	F		+	-	-		-		-		+		-				-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Industrial Program Process & System Upgrades Adjustment to 2012 savings	Verified True-up			-	-					12	-	-	-	_			-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Monitoring & Targeting Adjustment to 2012 savings	Verified True-up				-					12		=					-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
20 Energy Manager Adjustment to 2012 savings	Verified True-up	-					-	=	_	12 12		\pm		=			=		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Retrofit Adjustment to 2012 savings	Verified True-up									12 12		\pm							0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%		0.00%		0.00%	0%
22 Demand Response 3 Adjustment to 2012 savings	Verified True-up			-										-						0.00%							0.00%		0.00%		0.00%		0%
								T											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Home Assistance Program Home Assistance Program Adjustment to 2012 savings	Verified True-up											\pm		\equiv					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Aboriginal Program Home Assistance Program Adjustment to 2012 savings	Verified True-up			-			-					_		_			-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25 Direct Install Lighting Adjustment to 2012 savings	Verified True-up		===	İ						-		Ħ	Ŧ	茸			Ŧ		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Pre-2011 Programs completed in 2011 Electricity Retrofit Incentive Program																			0.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2012 savings	Verified True-up			_	1		_			12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
High Performance New Construction Adjustment to 2012 savings	Verified True-up									12				\equiv			-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Toronto Comprehensive Adjustment to 2012 savings	Verified True-up			-						0		1	$\pm \pm \pm$				-11-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Multifamily Energy Efficiency Rebates Adjustment to 2012 savings	Verified True-up				H					0		1		\equiv			-1		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
LDC Custom Programs Adjustment to 2012 savings	Verified True-up									0	Ι	3					-1		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Other 11 Program Enabled Savings Adjustment to 2012 savings	Verified True-up	E		-	 					0		\pm							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Time of Use Savings Adjustment to 2012 savings	Verified True-up			-	-					0	_						-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
LDC Pilots Adjustment to 2012 savings	Verified True-up			-	-		-	-	_	12	-	-		_	-		-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2012 Forecast CDM Savings in 2012		Ī	0							T							Ť								0		0		0	•		-	_
Distribution Rate in 2012 Lost Revenue in 2012 from 2011 programs Lost Revenue in 2012 from 2012 programs Total Lost Revenues in 2012 programs Total Lost Revenues in 2012 Forecast Lost Revenues in 2012 LRAMYA In 2012																			\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00							
LRAMVA in 2012 2012 Savings Persisting in 2013 2012 Savings Persisting in 2014 2012 Savings Persisting in 2014 2012 Savings Persisting in 2015 2012 Savings Persisting in 2016 2012 Savings Persisting in 2017 2012 Savings Persisting in 2018																			0 0 0 0 0 0	0 0 0 0 0 0	0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0	\$0.00

Note: LDC to make note of key assumptions inclu	DEC ALONE															
Table 4-c. 2013 Lost Revenues Work Form	1	Net Energy Swings Persistence (Wh) Net Demand Net Peak Demand Swings Persistence (Wh)							Data Alloca	ations for LRAM	VA.					_
Program	Results Status	Savinja (evn) Savinja (evn) Savinja (evn)						Heretend	Rate Rates	and to come	-					
	518118	2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 Malipher 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,500	Large User	Scattered S Load	reet Lighting							To
Consumer Program Appliance Retirement Adjustment to 2013 savings	Verified		Wh	Wh	xw	xw	WW.	KWh	XW	0	•	۰	0	۰	0	
	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Appliance Exchange Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
HVAC Incentives Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Conservation Instant Coupon Booklet Adjustment to 2013 savings	Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bi-Annual Retailer Event Adjustment to 2013 savings	True-up Verified True-up															01
	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Retailer Co-op Adjustment to 2013 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential Demand Response Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential Demand Response (IHD) Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential New Construction	Verified															01
Adjustment to 2013 savings Business Program	Тпин-ир		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Retrofit Adjustment to 2013 savings	Verified True-up	12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Direct Install Lighting Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2013 savings Building Commissioning Adjustment to 2013 savings																
	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
New Construction Adjustment to 2013 savings	Verified True-up	12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Energy Audit Adjustment to 2013 savings	Verified True-up	12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Small Commercial Demand Response Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Small Communial Domand Bossons (NID)	Verified															o.co.n
Adjustment to 2013 savings	Тпин-ир		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Demand Response 3 Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Program Process & System Upgrades																
Adjustment to 2013 savings	Verified True-up	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Monitoring & Targeting Adjustment to 2013 savings	Verified True-up	12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Energy Manager Adjustment to 2013 savings	Verified True-up	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Retrofit Adjustment to 2013 savings	Verified True-up															C ^c
		1 12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Demand Response 3 Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Home Assistance Program Home Assistance Program Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aborininal Program			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Home Assistance Program Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Direct Install Lighting Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Pre-2011 Programs completed in 2011			0.00.0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00.0	0.00%	0.00%	0.00%	0.00%	0.00.0	
Electricity Retrofit Incentive Program Adjustment to 2013 savings	Verified True-up	12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
High Performance New Construction Adjustment to 2013 savings	Verified True-up	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Toronto Comprehensive Adjustment to 2013 savings	Verified			0.00%									0.00%			01
Adjustment to 2013 savings Multifamily Energy Efficiency Rebates	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2013 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
LDC Custom Programs Adjustment to 2013 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other Program Enabled Savings	Verified True-up															of.
Adjustment to 2013 savings t Time of Use Savings	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2013 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
LDC Pilots Adjustment to 2013 savings	Verified True-up	12 12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Actual CDM Savings in 2013 Forecast CDM Savings in 2013				0			:	0	0	0	:	0	0		0	:
Distribution Bate in 2013			\$0,00000	\$0,00000	\$0.00000	\$0.00000	\$0,00000	\$0.00000	\$0.00000	\$0.00000	\$0,00000	\$0,00000	\$0.00000	\$0,00000	\$0,00000	\$0,00000
Lost Revenue in 2013 from 2011 programs Lost Revenue in 2013 from 2012 programs Lost Revenue in 2013 from 2013 programs			\$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0. \$0.00 \$0. \$0.00 \$0. \$0.00 \$0.
Total Lost Revenues in 2013 Forecast Lost Revenues in 2013			\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	
LRAMVA in 2013																\$0.
2013 Savings Persisting in 2014 2013 Savings Persisting in 2015 2013 Savings Persisting in 2016			0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013 Savings Persisting in 2016 2013 Savings Persisting in 2017 2013 Savings Persisting in 2018			0	0	0	0	0	0	0	0		0	0	0	0	
2013 Savings Persisting in 2019 2013 Savings Persisting in 2020			0	0	0	0	0	0	0	0	0	0	0	0	0	0
Note: LDC to make note of key assumptions inclu																

Note: LDC to make note of key assumption	s included above																																			
Table 4-d. 2014 Lost Revenues Worl	Form	Return to Top																																		
	Resulta	Net Ener Savings (k			Net I	Energy S	avings Persi	atence (i	(Wh)		Monthl	let Demand avings (kW)			Net Per	k Demand	Savings F	Pensistence (kW)									Rate Allor	cations for LR	AMVA						
Program	Status	2014	2015	2016	2017	2018	8 2019	2020	2021	2022 2023	Multiple	2014	2015	2016	2017	2018	2019	2020	1021	2022 200	3 Resi	idential	GS<50 kW	GS 50 TO 1,429 KW	GS 1,500 TO 4,500	Large User	Unmetered Scattered Load	Street Lighting								Total
Consumer Program												 										KWh	Wh	kW	KW	KW	kWh	XW	0			0			-	
Adjustment to 2014 savings	Verified True-up		\pm	1	١	1	1	上	_											_		.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Appliance Exchange	Verified				T	т:-		\Box																												0%
Adjustment to 2014 savings	True-up																1					.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3 HVAC Incentives Adjustment to 2014 savings	Verified True-up			\blacksquare	T	Е	-	\equiv										-1	-3			.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%

										_																							
4 Conservation Instant Coupon Booklet Adjustment to 2014 savings	Verified True-up				1:-			==		1			#	1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
5 Bi-Annual Retailer Event Adjustment to 2014 savings	Verified True-up			-		$\pm \pm$				1		-							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
<u>s</u> Retailer Co-op Adjustment to 2014 savings	Verified True-up	E		-								3		H					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Z Residential Demand Response Adjustment to 2014 savings	Verified True-up			\pm	H									H					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
8 Residential Demand Response (IHD) Adjustment to 2014 savings	Verified True-up			\pm	H	H	-			}		=						-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential New Construction Adjustment to 2014 savings	Verified True-up			7	T	T	Ŧ			1		=	-	F	-			7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Business Program	Verified									1 12																							0%
Retrofit Adjustment to 2014 savings	True-up Verified						=	-	-	12		=	-	÷				4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
11 Direct Install Lighting Adjustment to 2014 savings	True-up				4			_		12			Ш.	1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12 Building Commissioning Adjustment to 2014 savings	Verified True-up				1:-			_		3			ш.	1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
13 New Construction Adjustment to 2014 savings	Verified True-up	Е		\perp						12		1		1				1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
14 Energy Audit Adjustment to 2014 savings	Verified True-up			\pm	1	\perp	\pm			12		=	1	Ŀ				1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
15 Small Commercial Demand Response Adjustment to 2014 savings	Verified True-up			\pm	E	\mathbf{H}	3		-			-	1	H	H			3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Small Commercial Demand Response (HD)	Verified			T	T	T	- 1		1	1		Т	T-	1	T 1			1															0%
Adjustment to 2014 savings	True-up Verified				-					1				-				-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
17 Demand Response 3 Adjustment to 2014 savings Industrial Program	Verified True-up									1				1					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15 Process & System Upgrades Adjustment to 2014 savings	Verified True-up	Е		Ŧ		T	\equiv			12		\pm		Ŧ				7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
10 Monitoring & Targeting Adjustment to 2014 savings	Verified True-up	E		T	-	T	Ŧ	-	-	12		=	-	F				7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
20 Energy Manager Adjustment to 2014 savings	Verified True-up			7			-			12		-		T				7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
21 Retrofit Adjustment to 2014 savings	Verified True-up						苗			12									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
22 Demand Response 3 Adjustment to 2014 savings	Verified True-up									1									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Home Assistance Program																			 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23 Home Assistance Program Adjustment to 2014 savings	Verified True-up				1:			_	-	1			_	<u> </u>	11				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Aboriginal Program Home Assistance Program Adjustment to 2014 savinos	Verified True-up				Ţ	-	-	-	-	1		-		Ţ	-	_			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
25 Direct Install Lighting	Verified																		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2014 savings Pre-2011 Programs completed in 2011 26 Electricity Retroft Incentive Program	True-up									1	l				J				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Adjustment to 2014 savings	Verified True-up						_			12				+:-				-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
27 High Performance New Construction Adjustment to 2014 savings	Verified True-up			+			_		-	12		\exists	-	\pm				+==	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
28 Toronto Comprehensive Adjustment to 2014 savings	Verified True-up			-	-				-	0		\exists	-	\pm				-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
29 Multifamily Energy Efficiency Rebetes Adjustment to 2014 savings	Verified True-up			-	-	-	-+	-	-	0	-	+	-	+		-	-	+	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
30 LDC Custom Programs Adjustment to 2014 savings	Verified True-up				-	H	-	-	-		-	+	-	-	-			-	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Other 31 Program Enabled Savings	Verified			-	-													,															0%
Adjustment to 2014 savings	True-up				-		=	#				#	#	Ħ					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32 Time of Use Savings Adjustment to 2014 savings	Verified True-up								1	8			1	_				1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
33 LDC Pilots Adjustment to 2014 savings	Verified True-up									12		<u> </u>	Ш			_		Ш.	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2014 Forecast CDM Savings in 2014		+	•		-	\vdash	-	\pm	_	-	-	\pm		-	\vdash	\exists				•	0	0	0	0	0	0	0	0	0			-	_
Distribution Rate in 2014 Look Revenue in 2014 from 2011 programs Look Revenue in 2014 from 2012 programs Look Revenue in 2014 from 2012 programs Look Revenue in 2014 from 2013 programs Look Revenue in 2014 from 2014 programs Total Lost Revenues in 2014 Forecast Lost Revenues in 2014 LRAMVA in 2014																			\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,0000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
2014 Savings Persisting in 2015 2014 Savings Persisting in 2016 2014 Savings Persisting in 2016 2014 Savings Persisting in 2017 2014 Savings Persisting in 2019 2014 Savings Persisting in 2020 Note: LDC to make note of kny																			0 0 0	0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	

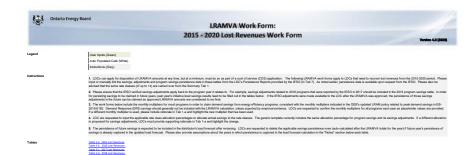


Table 5-a. 2015 Lost Revenues Work Form		Net Energy Net Energy Serious Permisson (WH) Net Consend Net Plack General Serious Permisson (WH)						Rati	Allocations for LR	AWVA					
Program	Results Status	Servings (WHI) Serv	Desidential	G5<50 kW	GS 50 TO G	SS 1,500 TO 4,222	Large User	nmetered Street Lig	Minn						Total
Legacy Framework		الدالدالدالدالدالدالدالدالدالدالدالدالدا	kWh	kWh	1,422 KW	1,222 KW	kW	kWh kW		0		0		0	
Residential Program Coupon Initiative Adjustment to 2015 savings	Verified True-up	4.770.527 4.609.408 4.609.408 4.609.408 4.609.408 4.609.408 4.609.408 4.609.408 4.607.403 4.607.403 4.607.403 4.607.403 4.007.	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bi-Annual Retailor Event Initiative Adjustment to 2015 savings	Verified True-up	5.004.917 4.915.988 4.915.	100.00% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Appliance Retirement Initiative Adjustment to 2015 savings	Verified True-up		100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
HVAC Incentives Initiative Adjustment to 2015 savings	Verified True-up	4.201.003 4.201.	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5 Residential New Construction and Major Adjustment to 2015 savings	Verified True-up	60,805 608,805 608,805 608,805 608,805 608,805 608,805 608,805 608,805 608,805 608,805 123 <td>100.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00% 0.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00%</td> <td>0.00%</td>	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Commercial & Institutional Program 5 Energy Audit Initiative Adjustment to 2015 savings	Verified True-up	3.452.201 3.452.201 3.452.201 0 0 0 0 0 0 0 0 2 736 736 736 736 736 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	3.00%	62.00% 62.00%	30.00% 30.00%	5.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Z Efficiency: Equipment Replacement Incentive Initiative Adjustment to 2015 servings	Verified True-up	20,000,0009 20,000,0009 20,100,0005 20,100,0005 20,100,0005 20,100,0005 20,100,0005 20,100,0005 20,000,0005 20,000,0005 12 4,004 4,009 4,009 4,009 4,000 4,0	0.00%	11.00%	67.00%	15.00%	7.00%	0.00% 0.00*	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Direct Install Lighting and Water Heating Initiative	Verified	5.000,195 3.617,310 2,777,250 2,775,365 2,775,365 2,775,365 2,775,365 2,775,365 2,775,376 2,775,2		90.00%	7.00%	3.00%									100%
Adjustment to 2015 savings New Construction and Major Renovation	True-up Verified	2(2):180 430,003 201,057 481,781 481,781 481,781 481,781 481,781 481,781 481,781 481,781 481,781 481,781 481,781 481,781 481,781 481,882 481,500 481,500 12 468 -172 52 196 196 196 196 196 196 196 196 196 196	0.00%	90.00%	7.00%	3.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2015 savings Existing Building Commissioning Incentive	True-up Verfled	260,460 269,460 269,460 269,460 269,460 269,460 269,460 269,460 269,460 269,460 19 38 38 38 38 38 38 38 38 38	0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2015 savings	True-up		0.00%	0.00%		0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Program Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verfied	0 0 0 0 0 0 0 0 0 0 12 0 0 0 0 0 0 0													0%
Adjustment to 2015 savings Process and Systems Upgnades Initiatives -	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
12. Monitoring and Targeting Initiative Adjustment to 2015 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00*	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Process and Systems Upgrades Initiatives - Energy Manager Initiative Adjustment to 2015 savings	Verified True-up	1527/753 1477/503 147	0.00%	18.30%	50.00%	27.60% 27.60%	4.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Low Income Program 14 Low Income Initiative Adjustment to 2015 servings	Verified True-up	3.477.200 3.339.504 3.283.508 3.295.604 3.287.607 3.287.607 3.297.607 3.297.607 3.297.607 3.207.608 32 12.008 1.00	100.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other 55 Aboriginal Conservation Program			100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	000
Adjustment to 2015 savings 16 Program Enabled Savings	Verified True-up Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2015 savings Conservation Fund Pilots			0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
17 Conservation Fund Pilot - EnerNOC Adjustment to 2015 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.007	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15 Loblaws Pilot Adjustment to 2015 savings 10 Conservation Fund Pilot - SEG	True-up	1,137/168 1,137/	0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00*	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2015 savings 20 Social Benchmarking Pliot	Verified True-up Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2015 savings Conservation First Framework	True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential Province-Wide Programs Save on Energy Coupon Program Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22 Save on Energy Heating and Cooling Program Adjustment to 2015 sevence	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.007	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
23 Save on Energy New Construction Program	Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2015 savings 24 Save on Energy Home Assistance Program	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00*	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2015 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Non-Residential Province-Wide Programs Save on Energy Audit Funding Program Adjustment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00*	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
25 Save on Energy Retrofit Program Adjustment to 2015 savings	Verified True-up	1581.108 1581.108 1582.304 1582.304 1582.304 1582.304 1582.304 1582.305 1462.713	0.00%	15.00% 15.00%	45.00% 45.00%	7.00% 7.00%	33.00% 33.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ZZ Save on Energy Small Business Lighting Program Adaptment to 2015 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
28 Save on Energy High Performance New Construction Program	Verfied	0 0 0 0 0 0 0 0 0 12 0 0 0 0 0 0 0			100.00%										100%
Adjustment to 2015 savings Save on Energy Existing Building	True-up Verified	MACON MACON MACON MACON MACON O O O O O O O O O	0.00%	0.00%	100.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Commissioning Program Adjustment to 2015 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

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Hydro Ottawa Limited
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30 Save on Energy Process & Systems Upgrades Program Adjustment to 2015 savings	Verified True-up	0	0	0	0	0	0		0	0	0	0	12	0	0	0	0	0 0	0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
31 Save on Energy Monitoring & Targeting Program Adjustment to 2015 savings	Verified True-up	0	0	0	0	0			0	0	0	0	12	0	0	0		0 0			0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
32 Save on Energy Energy Manager Program Adjustment to 2015 savings	Verified True-up		0	0	1 0	1 0	1 8		: I	0	0.		12								0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Local & Regional Program: 33 Business Refrigeration Local Program	Verified	0		.0.	1				2		9.			0							0 0															0%
Adjustment to 2015 savings 34 First Nation Conservation Local Program Adjustment to 2015 savings	True-up Verified True-up		0	0		1 0		-	0	0	0.		0	. 0	0	1.0	0	0 0	0		0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
35 Social Benchmarking Local Program Adjustment to 2015 savings	Verified True-up	0	0	0	0	1 0	- 0			0 1	0.			. 0		1.0	0	0 0	0		0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Residential Province-Wide Program Se Save on Energy Instant Discount Program	Verified			1 .0	1 0	1 0			0 1	0 1			1 12	T 0		1.0		0 [0	1 0																	0%
Adjustment to 2017 savings — Home Depot Home Appliance Market Uplift	True-up Verified			1 0	1	I a	10		0 I	0 1	0.	0	12	I. 0				0 0			0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Conservation Fund Pilot Program Adjustment to 2015 savings Pilot Programs	True-up				1	+:	1	_		•	9.		-12		1.0	1.0		0		0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35 EnWin Usities Ltd Re-Invest Pilo Adjustment to 2015 savings	Verified True-up	0	0	0	0	l å	0		ů I	0	0	0	12	0							0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
To Horizon Utilities Corporation - ECM Furnace Motor Pilot Adjustment to 2015 savings	Verified True-up		0	0	0	0	- 0		0	0	0	0	12	0			0		0		0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
40 Horizon Utilities Corporation - Social Benchmarking Pilot Adjustment to 2015 savings	Verified True-up		0	0	0				0	0	0	0	12	0			0		0		0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Hydro Ottawa Limited - Conservation 41 Voltage Regulation (CVR) Leveraging AMI	Verified					T.	Τ.	T	. [.		٠	12																							0%
Data Pilot Adjustment to 2015 savings	True-up			.0.		1.			0		0.		.12			1	. 0	0			0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42 Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot Adjustment to 2015 savings	Verified True-up	0	۰	0	۰				•	0	۰	۰		0	0	0	0	0 0		0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
43 Swimming Pool Efficiency Program Adjustment to 2015 savings	Verified True-up	0	10	1 0	1 0	1 :	1 8		: F	0	0.	- 0	12	0	1 8	1 0	0	0 0		0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Niagara-on-the-Lake Hydro Inc Direct 44 Install Energy Efficiency Measures for the	Verified				1 .	Ι.	Ť.	Ť	. [. 1			12			Τ.				0																0%
Agricultural Sector Adjustment to 2015 savings	True-up			.0.	1		۱.,		: L		0:		12	1	1.0	1.0		0 0	1.	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45 Direct Install - Hydronic Adjustment to 2015 savings	Verified True-up	0	0	0	0		- 0		0	0	0	0	12	0	0	0	0	0 0	0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
August Parkelle August Parkell	Verified True-up	0	0	0	0				0	0	0	0	12	0	0	0	0	0 0	0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
47 Toronto Hydro-Electric System Limited -	Verified	0	0	0	0		1 0		0	0	0	0	12	0	0	0					0 0															0%
Adjustment to 2015 savings Toronto Hydro-Electric System Limited -	True-up Verified				T .	T .			.				12	- ·		T o						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Direct Install - RTU Controls (Plot Savings) Adjustment to 2015 savings	Verified True-up					l °	- :		2		9.		12	0		1.0		0 0		0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	u%
Street Lighting Adjustment to 2015 savings	Verified True-up				E	\equiv	\pm	\equiv	\equiv	\equiv			.1.	E		E	EE	=	-	=		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Actual CDM Savings in 2015 Forecast CDM Savings in 2015		81,286	579	-	\vdash		=	\pm	\exists		_	_	=	13,50	0	-	\vdash	\exists	\pm	\equiv	\equiv		9,220,784	65,565	16,506	10,219		0		- 0	+	0		0		=
Distribution Pate in 2015 Lost Revenue in 2015 feer 2011 programs Lost Revenue in 2015 feers 2012 programs Lost Revenue in 2015 feers 2012 programs Lost Revenue in 2015 feers 2014 programs Lost Revenue in 2015 feers 2015 programs Total Lost Revenues in 2015 feer 2015 LPRAMFA in 2011																						\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,0000 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00 \$2,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,0000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
2015 Savinga Persisting in 2016 2015 Savinga Persisting in 2017 2015 Savinga Persisting in 2018 2015 Savinga Persisting in 2018 2015 Savinga Persisting in 2020 Note: LDC to make note of key assumptions includ																						19,442,880 19,415,414 19,389,373 19,237,862 19,016,875	9,367,169 9,422,931 9,038,500 9,038,500 9,020,061	65,535 65,562 65,560 65,843 65,564	16,902 16,904 16,923 17,060 17,039	10,216 10,220 10,129 10,152 10,051	0	0 0 0	0	0 0 0	0 0 0	0	0 0 0	0	0 0	

Table 5-b. 2016 Lost Revenues Work Form		Estum to too																																			
	Results	Net Ener Savings (k	Wh)				Not Energy	Savings Pers	istence (kW	1)			Mon	Sa	it Demand vings (kW)			Net Peak D	emand Sav	rings Persiste	nce (kW)								Rate Alloc	ations for LRA	MVA					_	
Program	Status	2016	20	17 21	018	2019	2020	2021	2022	2023	20	24 2025			2016	2017	2018	2019 2	020 20	2022	2023	2024 2025	Residential	G5<50 kW	GS 50 TO 1,422 KW	GS 1,500 TO 4,929	Large User	Unmetered Scattered Load	Street Lighting								Total
Lenacy Framework Residential Program 1 Coupon Initiative Adjustment to 2018 savings	Verified True-up				<u> </u>		-0-			1 0			=		0							0 0	100.00% 100.00%	0.00%	kW 0.00%	0.00%	0.00%	0.00%	0.00%	0 00%	0 00%	0 00%	0 00%	0.00%	0.00%	0.00%	100%
2 Bi-Annual Retailer Event Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	-	1 0		0	Ī		0	1 0 1	0 1	0	0	0 1 0	0 1	0 0	100.00% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Appliance Retirement Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	1 8		1 8		3		0	0				0 0		0 0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
4 HVAC Incentives Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	0	0	3	0 0	=		0	0	0	0	0	0 0	0	0 0	100.00% 100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
5 Residential New Construction and Major Renovation Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	0	0		0			0	0	0	0	0	0 0	0	0 0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Commercial & Institutional Program Energy Audit Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	1 .	0	1			2 2	0	0		0		0 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Z Efficiency: Equipment Replacement Incentive Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	0	0		0	10	2	0	0	0	0	0	0 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Direct Install Lighting and Water Heating initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	0	0		0	10	2	0	0	0	0	0	0 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 New Construction and Major Renovation initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	0	0			- 0	2	0	0		0		0 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
to Existing Building Commissioning Incentive Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	0	0			3	3	0	0				0 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Industrial Program Process and Systems Upgrades Initiatives - Project Incentive Initiative Adjustment to 2016 savings	Verified True-up	0			0	0	0	0	0	0]		100	2	0	0				0 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Process and Systems Upgrades Initiatives - 12. Monitoring and Targeting Initiative Adjustment to 2016 servings	Verified True-up	0			0	0	0	0	0	0			10	2	0	0	0	- 1	0	- -	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Adjustment to 2016 savings Process and Systems Upgrades Initiatives - Energy Manager Initiative Adjustment to 2016 savings	Verified True-up	0			•	0	0	0	0				1:		0	0	0	0	0		0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Low Income Program Low Income Initiative Adjustment to 2016 savings	Verified True-up				8		- 8-	0	- 8	1 .	3			2 -	0	- 0	9	0	0	0 0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Other Aboriginal Conservation Program Adjustment to 2016 savings	Verified True-up	0				0																0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 5
Schedule 2
Attachment E
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May 5, 2020
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8 Savings Persisting in 2017 8 Savings Persisting in 2016 8 Savings Persisting in 2016 8 Savings Persisting in 2020	led above	3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-	,870,192 ,870,192 ,870,192 ,870,583	7,737,082 7,745,545 7,743,617 7,525,674	45,053 45,117 45,084 43,297	6,175 6,184 6,179 5,877	27,620 27,659 27,635 26,215	0	8,514 8,514 8,514 8,514	0 0	0	0	0	0 0	0 0	0
ibution Rate in 2016 from 2011 programs Revenue in 2018 from 2012 programs Revenue in 2018 from 2012 programs Revenue in 2018 from 2013 programs Revenue in 2018 from 2014 programs Revenue in 2018 from 2015 programs Revenue in 2018 from 2016 programs it Lost Revenues in 2016 Lost Revenues in 2011 MVA in 2015		337 50 844	72,994.71 M8,242.30 12,792.50	\$167,011.93 \$369,342.79 \$231,763.20	\$195,328,14	\$3,65410 \$0.00 \$0.00 \$0.00 \$0.00 \$61,762,79 \$22,500.85 \$84,283,54 \$0.00	\$3,47420 \$0,00 \$0,00 \$0,00 \$0,00 \$35,491,55 \$65,757,85 \$131,242,42 \$0,00	\$0.02190 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5.31710 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$12,301.76 \$12,301.76 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
aal CDM Savings in 2016 coast CDM Savings in 2016	_	9,333,574 13,588 340 15,588 340 15,588	,870,192 ,725,000	7,732,034 10,727,000	47,985 191,563	6,163	27,563	0	2,314	0	0	0	0	0 0	0	0
et Lighting stment to 2016 savings	Verified True-up	2744 8754 8754 8754 8754	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
to Hydro-Electric System Limited - Install - RTU Controls (Pilot Savings) Iment to 2016 savings	Verified True-up	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
o Hydro-Electric System Limited - install - Hydronic (Pilot Savings ment to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
nent to 2016 savings Hydro-Electric System Limited -	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ent to 2016 savings Hydro Electricity Distribution Inc shall - RTU Controls ent to 2016 savings	Verfied		0.00%							0.00%						
Hydro Electricity Distribution Inc stall - Hydronic ant to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
nergy Efficiency Measures for the sral Sector ent to 2016 savings	Verified True-up	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ng Pool Efficiency Program ent to 2016 seivings -on-the-Lake Hydro Inc Direct	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ment to 2016 savings	True-up Verfied		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Ottawa Limited - Residential Demand rise Wi-Fi Thermostat Pilot	Verfied	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
ot ent to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Utilities Corporation - Social narking Pilo sent to 2016 savings Stawa Limited - Conservation	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Verfied															
	Verified True-up	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
rograms Utilities Ltd Re-Invest Pilo nent to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Depot Home Appliance Market Uplift ration Fund Plot Program sent to 2016 savings	Verified True-up		00.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Energy Instant Discount Program int to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ent to 2016 savings rtial Province-Wide Program			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ion Conservation Local Program ent to 2016 savings enchmarking Local Program	Verfied True-up Verfied True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
s Refrigeration Local Program ent to 2016 savings tion Conservation Local Program	Verified True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ent to 2016 savings Regional Programs	True-up	230,055 330,055 330,055 330,055 330,055 330,055 330,055 230,045 230,045 230,045 230,045 230,045 12 19 19 19 19 19 10 10 10 10 10 10	0.00%	18.00%	50.00%	28.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Energy Energy Manager Program	Verfied	203,445 203,446 203,446 203,446 203,870		18.00%	50.00%	28.00%	4.00%		0.00%	2.00.0	0.00%					
Energy Monitoring & Targeting ent to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ssioning Program nent to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
uction Program ment to 2016 savings in Energy Existing Building	True-up	814.783 814.783 814.783 414.783 43.779 26.739 26.739 26.739 26.739 26.739 26.739 27.73	0.00%	5.00%	95.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
n nent to 2016 savings n Energy High Performance New	True-up Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	5.00%	95.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
on Energy Small Business Lighting	Verfied		0.00%	0.00%	0.00%		0.00%	0.00%			0.00%		0.00%			
		15/71/2 15/71/	0.00%		45.00% 45.00%	7.00% 7.00%	33.00% 33.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
rsidential Province-Wide Program in Energy Audit Funding Program sent to 2016 savings	Verified True-up	200,202 200,20	0.00%	3.00%	62.00% 62.00%	30.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Energy Home Assistance Program ent to 2016 savings		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00.00% 00.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ent to 2016 savings	True-up		00.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
n nent to 2016 savings n Energy New Construction Program	True-up Verified		00.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
n Energy Heating and Cooling		3013,027 3,013,02	00.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
nation First Framework ntial Province-Wide Program n Energy Coupon Program nent to 2016 savings	Verfied	25641815 25641815	200.00													
Senchmarking Pliot nent to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
vation Fund Pilot - SEG sent to 2016 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ment to 2016 savings as Pilot ment to 2016 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

	Savin	t Energy ngs (kWh)				Not Energy 1	Savings Pers	ístence (kWh)					Net Demans Savings (kW			Net Peak D	mand Savir	ga Persiaten	ce (kW)								Rate Alloc	ations for LRAI	MVA						
Program	Results Status	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Monthly Multiplier	2017	2013	2019	2020 2	202	2023	2024	2025 2026	Residential	G5+50 kW	GS 50 TO 1,422 KW	GS 1,500 TC 4,929	Large User	Unmetered Scattered Load	Street Lighting								Total
Legacy Framework								•			•								-		kWh	kWh	kW	kW	kW	kWh	KW	0		0	0		0	0	
Legacy Framework Residential Program Coupon Initiative Adjustment to 2017 savings	Verified True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0 0	0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2 Bi-Annual Retailer Event Initiative Adjustment to 2017 savings	Verified True-up	0	0	9	. 0	- 0	0	0	0	0	0		0	0	9	0	0 0	0	0	0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%

 Appliance Retirement Initiative Adjustment to 2017 savings 	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4 HVAC Incentives Initiative Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential New Construction and Major Renovation Initiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Commercial & Institutional Program Energy Audit Initiative Adjustment to 2017 savings	Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.000	0.000	0.000	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00%
z Efficiency: Equipment Replacement Incentive Initiative Adjustment to 2017 savings	Verfied	0 0 0 0 0 0 0 0 0 0 12 0 0 0 0 0 0 0														
Adjustment to 2017 savings Direct Install Lighting and Water Heating Initiative Adjustment to 2017 savings	True-up Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2017 savings New Construction and Major Renovation	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
New Construction and Major Renovation initiative Adjustment to 2017 swings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
to Existing Building Commissioning Incentive Initiative Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Industrial Program Process and Systems Upgrades Initiatives - Project Incentive Initiative Adjustment to 2017 savings	Verified					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%
Process and Systems Upgrades Initiatives - 12 Monitoring and Targeting Initiative	True-up Verified		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2017 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Process and Systems Upgrades Initiatives - Energy Manager Initiativs Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 12 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Low Income Program Low Income Initiative Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other Aboriginal Conservation Program Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
to Program Enabled Savings Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Conservation Fund Pilots 17 Conservation Fund Pilot - EnerNOC Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15 Lobiava Pilot Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
19 Conservation Fund Pilot - SEG Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
20 Social Benchmarking Pliot Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Conservation First Framework Residential Province-Wide Program 21 Save on Energy Coupon Program Adjustment to 2017 savinos	Verfied	22:00:265	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22 Save on Energy Heating and Cooking Program Adjustment to 2017 servings	Verfied	\$227,110 \$227	100.00%													
Adjustment to 2017 savings Save on Energy New Construction Program	True-up Verified		100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2017 savings 24 Save on Energy Home Assistance Program	True-up	6003 6005 6005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2017 savings	True-up	9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Non-Residential Province-Wide Program 25 Save on Energy Audit Funding Program Adjustment to 2017 savings		241736 241736 241736 241736 241736 241736 241736 241736 241736 241736 241736 241736 201736 10 10 10 10 10 10 10 10 10 10 10 10 10	0.00%	3.00%	85.00%	11.00% 11.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
25 Save on Energy Retroft Program Adjustment to 2017 savings		\$160,00 \$100,0	0.00%	18.00%	62.00% 62.00%	9.00%	11.00% 11.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ZZ Save on Energy Small Business Lighting Program Adjustment to 2017 savings	True-up		0.00%	90.00%	7.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Save on Energy High Performance New Construction Program Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	84.90%	15.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
29 Save on Energy Existing Building Commissioning Program Adjustment to 2017 savings	Verified True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
30 Save on Energy Process & Systems Upgrades Program Adjustment to 2017 savings	Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
31 Save on Energy Monitoring & Targeting Program Adjustment to 2017 savings	Verified	0 0 0 0 0 0 0 0 0 0 0 12 0 0 0 0 0 0 0		0.00%				0.00%						0.00%		
32 Save on Energy Energy Manager Program	True-up Verified	pro- 11 pro- 12 pro- 1	0.00%	18.00%	50.00%	28.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%
Adjustment to 2017 savings Local & Regional Programs	True-up		0.00%	18.00%	50.00%	28.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
33 Business Refrigeration Local Program Adjustment to 2017 savings 34 First Nation Conservation Local Program			0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
First Nation Conservation Local Program Adjustment to 2017 savings Social Benchmarking Local Program Adjustment to 2017 savings		0 0 6 9 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%		0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2017 Savings Residential Province-Wide Program Save on Energy Instant Discount Program Adjustment to 2017 Savings			100.00%	0.00%	100.00%	0.00%				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2017 savings Home Depot Home Appliance Market Uplift	True-up Verified	2938464 2111230 219320 219320 210320	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
27 Home Depot Home Appliance Market Uplift Conservation Fund Pilot Program Adjustment to 2017 awrings Pilot Programs ElieWin Utilises Ltd Re-Invest Pilo Adjustment to 2017 awrings	True-up		0.00%	0.00%	0.00%	0.00%				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Adjustment to 2017 savings Horizon Utilities Corporation - ECM Furnace	Verified True-up Verified	99	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
35 Horizon Utilities Corporation - ECM Furnace Motor Priot Adjustment to 2017 savings	True-up		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Maritan I Million Companying - 9: 111				0.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%
40 Horizon Utilities Corporation - Social Benchmarking Pilo Adjustment to 2017 savings	Verified True-up	12	0.00%	0.00%		0.00%							0.00%	0.00%	0.00%	
Benchmarking Pito Adjustment to 2017 savings	True-up Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.00%	0.00**		0.000	0.000	0.000	0.000	0.007					0.000
Horizon Utilities Corporation - Social Standmentonics Plantmentonics Plantme	True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Benchmarkino Pilos Anjamarnia do 2017 savings Hydro Ottawa Limited - Conservation Livitage Registrion (CVR) Levraging AMI Data Pilot Anjamarnia 2017 savings Hydro Ottawa Limited - Residential Demand 20 Response W-F Thermostat Pilot Adjustment to 2017 savings Adjustment to 2017 savings	True-up Verified True-up Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%	0.00%	0.00%					0.00%	0.00%					0.00%
Bandharakina Pice Adjustania 2017 awings hydro O'llawa Limited - Cornearvation Livitage Registerio (CVR) Leveraging AMI Data Pint Adjustania to 2017 awings hydro O'llawa Limited - Resisterial Derand Response VPF Thermoniate Pint Adjustania to 2017 awings	True-up Verified True-up Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0.00%	0.00%					0.00%	0.00%	0.00%	0.00%	0.00%
Benchmenker 20g. Benchmenker 20g. Polis Olsman Lindert - Conservation 1 violage Regulation (CVR) Leveraging AME Data Polis Data Polis Polis Olsman Lindert - Residented Dammad Adjustment to 2017 avinings Polis Olsman Lindert - Residented Dammad Adjustment to 2017 avinings Adjustment to 2017 avinings Adjustment to 2017 avinings Nasgano-Olsman Lain Hydro Inc Olsect Managano-Polis Lain Hydro Inc Olsect Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service Managano-Polis Service	True-up Verified True-up Verified True-up	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00%			0.00%	0.00%	0.00%	0.00%			0.00%	0.00%	0.00%	0.00%	0.00%
Bendhamakina Piqui Mandhamakina Piqui Mandhamakina Diri savingsi Mandhamakina Diri	True-up Verified True-up Verified True-up Verified True-up Verified	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00% 0.00% 100.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 0.00%	0.00%

Hydro Ottawa Limited
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Exhibit 4
Tab 5
Schedule 2
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1																															j.
as Direct Install - RTU Controls Adjustment to 2017 savings	Verified True-up									12							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pitot Savinos Adjustment to 2017 savings	Verified True-up				1	1	1			12			1				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
Toronto Hydro-Electric System Limited - as Direct Install - RTU Controls (Pilot Savings)	Verified			1	1	T				12			T	П																	0%
Adjustment to 2017 savings	True-up								 	12.							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40 Street Lighting Adjustment to 2017 savings	Verified True-up		H	#	-	# #	1			1.	0	.0	00		$\pm \pm$		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
Actual CDM Savings in 2011																			23.042	10 807	12 033										
Forecast CDM Savinos in 2011		138.600	196				+	 -	 	-	16.340			+	 +	_	61.995.603	12.181,429	73,012	10,807	12.033		- 8- 1-								
distal August Services in a sil- constant Control of the Services in a sil- Danish Services in Services in a sil- Danish Services in 2017 from 2011 programs Load Revenue in 2017 from 2013 programs Load Revenue in 2017 from 2013 programs Load Revenue in 2017 from 2019 programs Load Revenue in 2017 from 2019 programs Load Revenue in 2017 from 2019 programs Load Revenue in 2017 from 2019 programs Total Load Revenue in 2017 Forecast Load Revenues in 2011 LARAMY LOAD LARAMY		1 134.00	196		+		-	 			16.340			+			\$0.00000 \$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$2.00000 \$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,0000 \$0,000 \$	50.000 \$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0,00000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000	\$0,00000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000	\$0,0000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000	\$0,00000 \$0,000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Forecast COM Savings in 2011 Distribution Parks in 2017 Lost Revenues in 2017 from 2011 programs Lost Revenues in 2017 from 2012 programs Lost Revenues in 2017 from 2013 programs Lost Revenues in 2017 from 2013 programs Lost Revenues in 2017 from 2013 programs Lost Revenues in 2017 from 2015 programs Lost Revenues in 2017 from 2015 programs Lost Revenues in 2017 from 2015 programs Lost Revenues in 2017 from 2015 programs Total Lost Revenues in 2017 Forecast Lost Revenues in 2017 Forecast Lost Revenues in 2017	111	1.131.60	198								16.340				 		\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

Table 5-d. 2018 Lost Revenues Work Form	Exturn to too																																
	Net Energy Savings (kWh	,			Net Energy :	Savings Persi	istence (kWh)				No.	ot Demand ivings (kW)		Net Peak D	mand Savi	nga Persiat	ence (kW)								Rate Alloc	ations for LRAI	IVA						
Program Result Status		2019	2020	2021	2022	2023	2024	2025	2026 202	86.0	nthly tiplier	2015 2	119 20	20 2021 2	122 202	2024	2025	2026 202	Residential	G5+50 kW	GS 50 TO 1,422 KW	GS 1,500 TO 4,999	Large User	SCHIMOS CORS									Total
Legacy Framework																			XWb	kWh	KW	kW	KW	kWh	kW.	0		0		0	0	0	
Actual CDM Savings in 2018								l				0																					
Forecast CDM Savings in 2018		1						1							1		1 1							0	0	0			0		0	0	1
Dashblader Rate in 2016 out Revenue in 2016 from 2011 programs Loss Revenue in 2018 from 2012 programs Loss Revenue in 2018 from 2012 programs in the Revenue in 2018 from 2012 programs construction of the Loss Revenue in 2018 from 2015 programs Loss Revenue in 2018 from 2015 programs Loss Revenue in 2018 from 2015 programs Loss Revenue in 2018 from 2017 programs Loss Revenue in 2018 from 2017 programs Loss Revenue in 2018 from 2017 programs Construction of the Loss Revenues in 2018 Revenues in 2018 from 2018 from 2018 Process Loss Revenues in 2018 Revenues Loss Revenues in 2018 LAMAMA in 2018 from 2018 LAMAMA in 2018 from 2018 RAMAMA in 2018 from 2018 LAMAMA in 2018 from 2018 LAMAMA in 2018 from 2018 LAMAMA in																			\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$2,00000 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.0000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
2018 Savings Persisting in 2015 2018 Savings Persisting in 2025 Note: LDC to make note of law assumptions included above																			0	0	0		8	0	0	0	0	0	0	0	0	0	

	Net Energ Savings (k)				Net Energy 5	Savinga Peral	stence (kWh)					Not Demar Savings (k)			Net Peak I	emand Sav	rings Pensists	ence (kW)								Rate Alloc	ations for LRA	MVA						
Program	Results Status 2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Monthly Multiplier	2019	2020	2021	2022	2023 20	2025	2026	2027 2028	Residential	G5450 kW	GS 50 TO 1,422 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								T.
acy Framework																				KWh	kWh	kW	kW	kW	kWh	kW								
ual CDM Savings in 2011																																		
ecast CDM Savings in 2011		_											_		-		_		-															
ribution Rate in 2019																				\$0.00000	50 00000	50 00000	\$0,00000	\$0.00000	\$0,00000	\$0,00000	\$0.00000	\$0,00000	\$0,00000	\$0,00000	\$0,00000	\$0,00000	\$0,00000	
Revenue in 2019 from 2011 programs																				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	50
Revenue in 2019 from 2012 programs																				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Revenue in 2019 from 2013 programs																				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Revenue in 2019 from 2014 programs																				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Revenue in 2019 from 2015 programs																				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Revenue in 2019 from 2016 programs																				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Revenue in 2019 from 2017 programs																				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Revenue in 2019 from 2018 programs Revenue in 2019 from 2019 programs																				\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0
Nevenue in 2019 from 2019 programs at Lost Revenues in 2019																				\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0
																				\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0 \$0
ecast Lost Revenues in 2011 MVA in 2011																																		\$0

4ad Parame 2025 (angle) 4ad Parame 2025 (angl	Table 5-f. 2020 Lost Revenues Work Forn	Return to top																																	
Figure 1. 201 202 203 202 203 204 205 205 205 205 205 205 205 205 205 205						Net Energy	Savings Persi	istence (kWh)					Not Deman Savings (kV	9		Net Peak Den	and Saving	a Persiatenc	e (XW)								Rate Allo	cations for LRA	MVA						
Control Cont		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Monthly Multiplier	2020	2021	2022	2023 202	4 2025	2026	2027 2	2025 2029			1,422 KW	4,939		Scattered Load									Total
Present College Present Co	Legacy Framework																				KWh	kWh	KW	kW	kW	kWh	KW.								
Section Sect		 																	-		- 0					- 0		- 0		- 0					
ACCURATION OF SHARE	Loof Revenue in 2020 from 2011 programs Loof Revenue in 2020 from 2012 programs Loof Revenue in 2020 from 2013 programs Loof Revenue in 2020 from 2014 programs Loof Revenue in 2020 from 2015 programs Loof Revenue in 2020 from 2015 programs Loof Revenue in 2020 from 2019 programs Loof Revenue in 2020 from 2019 programs Loof Revenue in 2020 from 2020 programs Loof Revenue in 2020 from 2020 programs Loof Revenue in 2020 from 2020 programs Loof Revenue in 2020 from 2020 programs Loof Revenue in 2020 from 2020 programs																				\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

Beturn to too



LRAMVA Work Form: Carrying Charges by Rate Class

Version 4.0 (2020)

Legend

User Inputs (Green)

Auto Populated Cells (White)
Instructions (Grey)

Instructions

- 1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. Monthly interest rates are used to calculate the variance on the carrying charges for LRAMVA. Starting from column I, the principal will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rate from column H to determine the monthly variances on carrying charges for each rate class by year.
- 2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.
- 3. Please calculate the projected interest amounts in the LRAMVA work form. Project carrying charges amounts included in Table 6-a should be consistent with the projected interest amounts included in the DVA Continuity Schedule. If there are additional adjustments required to the formulas to calculate the projected interest amounts, please adjust the formulas in Table 6-a accordingly.

Table 6. Prescribed Interest Rates

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.50%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	2.17%
2019 Q1	2.45%
2019 Q2	2.18%
2019 Q3	2.18%
2019 Q4	2.18%
2020 Q1	2.18%
2020 Q2	2.18%
2020 Q3	2.18%
2020 Q4	2.18%

Check OEB website

## 1 2911	Tota								Street Lighting	Unmetered Scattered Load	Large User	GS 1,500 TO 4,999	GS 50 TO 1,499 KW	GS<50 kW	Residential	Monthly Rate	Quarter	Period	Month
Mar-11 2911 Q1 Q175 \$0.00		\$0.00	\$0.00	\$0.00		\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.12%	Q1	2011	Jan-11
April 2911 62 0.17% 50.00																			
Map 1 2011 Q2																			
## 0.11 2011 021 022 0.12% 50.00 5																			
Aug. 1 2011 0.31 0.175 30.00 50.	0 \$0.00				\$0.00										\$0.00				
August 2011 031 0.11% \$0.00																			
Columb C	0 \$0.00		\$0.00	\$0.00										\$0.00	\$0.00				Aug-11
No.11 2011 Q4																			
Dec-11 2011 2011 2014 2012 2014																			
Good for 2011																			
Committed Committed Committed Co																0.1276	Q4	2011	
Opening Balance for 2012 1 0.12% 50.00	\$ \$6.00	\$0.00	\$0.00	\$0.00	\$0.00	40.00		40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
Feb-12 2011-2012 C1 0.12% \$0.00 \$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
Mm-12 2011-3012 C1 0.12% \$0.00 \$0.																			
April 2 2011-2012 02 0.12% \$0.00 \$																			
May-12 2011-2012 02 0.12% \$0.00 \$0																			
Jun-12 2011-2012 Q3 0.12% \$0.00 \$0																			
Aug 2011-2012 33 0 12% \$0.00	0 \$0.00	\$0.00																	
Aug-12 2011-2012 03															\$0.00				
Celt - 12 2011-2012 C4																			
Nov-12 2011-2012 Q4 0.12% \$0.00 \$0																			
Dec-12 2011-2012 Q4																			
Total for 2012 Total for 2013 S0.00 \$0																			
April																0.12%	Q4	2011-2012	
Committee Comm	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	U	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
Mar-13	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	n	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
Mar-13																0.12%	Q1		
Apr-13 2011-2013 Q2 0.12% \$0.00 \$0.0									\$0.00				\$0.00			0.12%	Q1	2011-2013	Feb-13
May-13 2011-2013 Q2 0.12% \$0.00 \$0																			
Mar-13 2011-2013 32 32 0.12% \$0.00																			
Mu-13																			
Aug-13 2011-2013 03 0.12% \$0.00 \$0.0																			
Sep-13 2011-2013 Q3 0.12% \$0.00 \$0.0																			
Nov-13 2011-2013 Q4 0.12% \$0.00 \$0.0																			
Dec-13 2011-2013 O4 0.12% S0.00 S0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.12%	Q4	2011-2013	Oct-13
Total for 2013 \$0.00																			Nov-13
April Apri																0.12%	Q4	2011-2013	
Opening Balance for 2014	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
Jan-14 2011-2014 01 0.12% \$0.00 \$0	\$0.00	00.00	60.00	60.00	60.00	***		60.00	60.00	00.00	***	÷0.00	***	60.00	60.00				
Feb-14 2011-2014 01 0.12% \$0.00 \$0.0																0.12%	01		
Mar-14 2011-2014 Q1 0.12% S0.00 S0																			
Apr-14 2011-2014 Q2 0.12% \$0.00 \$0.0																			
Jul-14 2011-2014 Q2 0.12% \$0.00 \$0.0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.12%	Q2	2011-2014	Apr-14
Jul-14 2011-2014 Q3 0.12% S0.00 S0																			
Aug-14 2011-2014 03 0.12% \$0.00 \$0.0																			
Sep-14 2011-2014 Q3 0.12% \$0.00 \$0.0																			
Oct-14 2011-2014 Q4 0.12% \$0.00 \$0.0																			
Nov-14 2011-2014 Q4 0.12% \$0.00 \$0.0																			
Total for 2014 \$0.00 \$																			
Amount Cleared Amount Cleared	0 \$0.00												\$0.00			0.12%	Q4	2011-2014	Dec-14
Amount Cleared Amount Cleared	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
																		1	Amount Cleared
			\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	0.400/			
Jan-15 2011-2015 Q1 0.12% \$0.00 \$0.0																			
Feb-15 2011-2015 Q1 0.12% \$0.00 \$0.0																			
Mini-15 2011-2015 Q2 0.09% \$0.00 \$0.																			
May-15 2011-2015 Q2 0.09% \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00																			
Jun-15 2011-2015 Q2 0.09% \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00																			

| Jul-15 | 2011-2015 | Q3 | 0.09% | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | | \$0.00
 | \$0.00 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 |
|--|---|--|--|---|---
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Aug-15	2011-2015
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 |
| Sep-15
Oct-15 | 2011-2015 | Q3
Q4 | 0.09% | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 |
| Nov-15 | 2011-2015 | Q4
Q4 | 0.09% | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 |
| Dec-15 | 2011-2015 | Q4 | 0.09% | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 |
| Total for 2015 | | | | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 |
| Amount Cleare
Opening Balar | | | | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 |
| Jan-16 | 2011-2016 | Q1 | 0.09% | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 |
| Feb-16 | 2011-2016 | Q1 | 0.09% | \$55.42 | \$10.51 | -\$24.26
 | \$6.44 | \$10.03 | \$0.00
 | \$0.94 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$59.07
 |
| Mar-16 | 2011-2016 | Q1 | 0.09% | \$110.83 | \$21.03 | -\$48.52
 | \$12.88 | \$20.05 | \$0.00
 | \$1.88 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$118.15
 |
| Apr-16
May-16 | 2011-2016 | Q2
Q2 | 0.09% | \$166.25
\$221.67 | \$31.54
\$42.06 | -\$72.78
-\$97.04
 | \$19.32
\$25.75 | \$30.08
\$40.10 | \$0.00
\$0.00
 | \$2.82
\$3.76 | \$0.00 |
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$177.22
\$236.29
 |
| Jun-16 | 2011-2016 | Q2 | 0.09% | \$277.08 | \$52.57 | -\$121.30
 | \$32.19 | \$50.13 | \$0.00
 | \$4.70 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$295.37
 |
| Jul-16 | 2011-2016 | Q3 | 0.09% | \$332.50 | \$63.08 | -\$145.57
 | \$38.63 | \$60.16 | \$0.00
 | \$5.64 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$354.44
 |
| Aug-16
Sep-16 | 2011-2016
2011-2016 | Q3
Q3 | 0.09% | \$387.91
\$443.33 | \$73.60
\$84.11 | -\$169.83
-\$194.09
 | \$45.07
\$51.51 | \$70.18
\$80.21 | \$0.00
\$0.00
 | \$6.58
\$7.52 | \$0.00
\$0.00 |
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$413.51
\$472.59
 |
| Oct-16 | 2011-2016 | Q4 | 0.09% | \$498.75 | \$94.63 | -\$194.09
 | \$57.95 | \$90.23 | \$0.00
 | \$8.46 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$531.66
 |
| Nov-16 | 2011-2016 | Q4 | 0.09% | \$554.16 | \$105.14 | -\$242.61
 | \$64.38 | \$100.26 | \$0.00
 | \$9.40 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$590.74
 |
| Dec-16 | 2011-2016 | Q4 | 0.09% | \$609.58 | \$115.66 | -\$266.87
 | \$70.82 | \$110.29 | \$0.00
 | \$10.34 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$649.81
 |
| Total for 2016
Amount Cleare | | | | \$3,657.48 | \$693.93 | -\$1,601.22
 | \$424.93 | \$661.72 | \$0.00
 | \$62.02 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$3,898.85
 |
| Opening Balar | | - | | \$3,657.48 | \$693.93 | -\$1,601.22
 | \$424.93 | \$661.72 | \$0.00
 | \$62.02 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$3,898.85
 |
| Jan-17 | 2011-2017 | Q1 | 0.09% | \$665.00 | \$126.17 | -\$291.13
 | \$77.26 | \$120.31 | \$0.00
 | \$11.28 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$708.88
 |
| Feb-17
Mar-17 | 2011-2017 | Q1
Q1 | 0.09% | \$665.00
\$665.00 | \$126.17
\$126.17 | -\$291.13
 | \$77.26
\$77.26 | \$120.31
\$120.31 | \$0.00
 | \$11.28
\$11.28 | \$0.00 |
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$708.88
 |
| Mar-17
Apr-17 | 2011-2017 | Q1
Q2 | 0.09% | \$665.00
\$665.00 | \$126.17
\$126.17 | -\$291.13
-\$291.13
 | \$77.26
\$77.26 | \$120.31
\$120.31 | \$0.00
\$0.00
 | \$11.28
\$11.28 | \$0.00
\$0.00 |
 | \$0.00 | \$0.00
\$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$708.88
\$708.88
 |
| May-17 | 2011-2017 | Q2 | 0.09% | \$665.00 | \$126.17 | -\$291.13
 | \$77.26 | \$120.31 | \$0.00
 | \$11.28 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$708.88
 |
| Jun-17 | 2011-2017 | Q2 | 0.09% | \$665.00 | \$126.17 | -\$291.13
 | \$77.26 | \$120.31 | \$0.00
 | \$11.28 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$708.88
 |
| Jul-17
Aug-17 | 2011-2017 | Q3
Q3 | 0.09% | \$665.00
\$665.00 | \$126.17
\$126.17 | -\$291.13
-\$291.13
 | \$77.26
\$77.26 | \$120.31
\$120.31 | \$0.00
\$0.00
 | \$11.28
\$11.28 | \$0.00
\$0.00 |
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$708.88
\$708.88
 |
| Sep-17 | 2011-2017 | Q3 | 0.09% | \$665.00 | \$126.17 | -\$291.13
 | \$77.26 | \$120.31 | \$0.00
 | \$11.28 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$708.88
 |
| Oct-17 | 2011-2017 | Q4 | 0.13% | \$906.81 | \$172.05 | -\$397.00
 | \$105.35 | \$164.06 | \$0.00
 | \$15.38 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$966.66
 |
| Nov-17
Dec-17 | 2011-2017 | Q4
Q4 | 0.13% | \$906.81
\$906.81 | \$172.05
\$172.05 | -\$397.00
-\$397.00
 | \$105.35
\$105.35 | \$164.06
\$164.06 | \$0.00
\$0.00
 | \$15.38
\$15.38 | \$0.00 |
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$966.66
\$966.66
 |
| Total for 2017 | 2011-2017 | Ų4 | 0.13% | \$12,362.87 | \$172.05 | -\$5,412.40
 | \$1,436.33 | \$2,236.71 | \$0.00
 | \$209.64 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$13,178.77
 |
Amount Cleare					
 | | |
 | | ,,,,, |
 | | |
 | | |
 |
| Opening Balar
Jan-18 | nce for 2018
2011-2018 | Q1 | 0.13% | \$12,362.87
\$906.81 | \$2,345.61
\$172.05 | -\$5,412.40
-\$397.00 | \$1,436.33
\$105.35 | \$2,236.71
\$164.06 | \$0.00
\$0.00 | \$209.64
\$15.38 | \$0.00
\$0.00 | \$13,178.77
\$966.66 |
| Feb-18 | 2011-2018 | Q1 | 0.13% | \$906.81 | \$172.05 | -\$397.00
 | \$105.35 | \$164.06 | \$0.00
 | \$15.38 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$966.66
 |
| Mar-18 | 2011-2018 | Q1 | 0.13% | \$906.81 | \$172.05 | -\$397.00
 | \$105.35 | \$164.06 | \$0.00
 | \$15.38 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$966.66
 |
| Apr-18 | 2011-2018 | Q2 | 0.16% | \$1,142.58 | \$216.78 | -\$500.22
 | \$132.75 | \$206.72 | \$0.00
 | \$19.38 | \$0.00 |
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$1,217.99
 |
| May-18
Jun-18 | 2011-2018
2011-2018 | Q2
Q2 | 0.16% | \$1,142.58
\$1,142.58 | \$216.78
\$216.78 | -\$500.22
-\$500.22
 | \$132.75
\$132.75 | \$206.72 | \$0.00
 | \$19.38 | \$0.00 | \$0.00
\$0.00
 | \$0.00 | \$0.00 | \$0.00
 | \$0.00 | \$0.00 | \$1,217.99
 |
Jul-18					
 | | |
 | | |
 | | 90.00 |
 | | |
 |
| Aug-18 | 2011-2018 | Q3 | 0.16% | \$1,142.58 | \$216.78 | -\$500.22
 | \$132.75 | \$206.72
\$206.72 | \$0.00
\$0.00
 | \$19.38
\$19.38 | \$0.00 |
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$1,217.99
\$1,217.99
 |
| | 2011-2018 | Q3 | 0.16% | \$1,142.58
\$1,142.58 | \$216.78 | -\$500.22
-\$500.22
 | \$132.75
\$132.75 | \$206.72
\$206.72 | \$0.00
\$0.00
 | \$19.38
\$19.38 | \$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$0.00
\$0.00
 | \$0.00
\$0.00 | \$0.00
\$0.00 | \$1,217.99
\$1,217.99
 |
| Sep-18 | 2011-2018
2011-2018 | Q3
Q3 | 0.16%
0.16% | \$1,142.58
\$1,142.58
\$1,142.58 | \$216.78
\$216.78 | -\$500.22
-\$500.22
-\$500.22 | \$132.75
\$132.75
\$132.75 | \$206.72
\$206.72
\$206.72 | \$0.00
\$0.00
\$0.00 | \$19.38
\$19.38
\$19.38 | \$0.00
\$0.00
\$0.00 | \$1,217.99
\$1,217.99
\$1,217.99 |
| Sep-18
Oct-18 | 2011-2018
2011-2018
2011-2018 | Q3
Q3
Q4 | 0.16%
0.16%
0.18% | \$1,142.58
\$1,142.58
\$1,142.58
\$1,311.86 | \$216.78
\$216.78
\$248.90 | -\$500.22
-\$500.22
-\$500.22
-\$574.32 | \$132.75
\$132.75
\$132.75
\$152.41 | \$206.72
\$206.72
\$206.72
\$237.34 | \$0.00
\$0.00
\$0.00
\$0.00 | \$19.38
\$19.38
\$19.38
\$22.25 | \$0.00
\$0.00
\$0.00
\$0.00 | \$1,217.99
\$1,217.99
\$1,217.99
\$1,398.43 |
| Sep-18
Oct-18
Nov-18
Dec-18 | 2011-2018
2011-2018
2011-2018
2011-2018
2011-2018 | Q3
Q3 | 0.16%
0.16% | \$1,142.58
\$1,142.58
\$1,311.86
\$1,311.86
\$1,311.86 | \$216.78
\$216.78
\$248.90
\$248.90
\$248.90 | -\$500.22
-\$500.22
-\$500.22
-\$574.32
-\$574.32
-\$574.32
 | \$132.75
\$132.75
\$132.75
\$132.75
\$152.41
\$152.41 | \$206.72
\$206.72
\$206.72
\$237.34
\$237.34
\$237.34 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
 | \$19.38
\$19.38
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\$22.25
\$22.25
\$22.25 | \$0.00
\$0.00
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\$0.00 | \$0.00
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\$0.00 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00 | \$1,217.99
\$1,217.99
\$1,217.99
\$1,398.43
\$1,398.43
\$1,398.43
 |
| Sep-18
Oct-18
Nov-18
Dec-18
Total for 2018 | 2011-2018
2011-2018
2011-2018
2011-2018
2011-2018 | Q3
Q3
Q4
Q4 | 0.16%
0.16%
0.18%
0.18% | \$1,142.58
\$1,142.58
\$1,142.58
\$1,311.86
\$1,311.86 | \$216.78
\$216.78
\$248.90
\$248.90 | -\$500.22
-\$500.22
-\$500.22
-\$574.32
-\$574.32
 | \$132.75
\$132.75
\$132.75
\$152.41
\$152.41 | \$206.72
\$206.72
\$206.72
\$237.34
\$237.34
\$237.34 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
 | \$19.38
\$19.38
\$19.38
\$22.25
\$22.25 | \$0.00
\$0.00
\$0.00
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\$0.00 | \$0.00
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\$0.00 | \$0.00
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 | \$0.00
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\$0.00
\$0.00
\$0.00 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00 | \$1,217.99
\$1,217.99
\$1,217.99
\$1,398.43
\$1,398.43
 |
| Sep-18 Oct-18 Nov-18 Dec-18 Total for 2018 Amount Cleare | 2011-2018
2011-2018
2011-2018
2011-2018
2011-2018
2011-2018 | Q3
Q3
Q4
Q4 | 0.16%
0.16%
0.18%
0.18% | \$1,142.58
\$1,142.58
\$1,142.58
\$1,311.86
\$1,311.86
\$1,311.86
\$25,874.38 | \$216.78
\$216.78
\$248.90
\$248.90
\$248.90
\$4,909.15 | -\$500.22
-\$500.22
-\$500.22
-\$574.32
-\$574.32
-\$574.32
-\$11,327.67
 | \$132.75
\$132.75
\$132.75
\$152.41
\$152.41
\$152.41
\$3,006.12 | \$206.72
\$206.72
\$206.72
\$237.34
\$237.34
\$237.34
\$4,681.23 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
 | \$19.38
\$19.38
\$19.38
\$22.25
\$22.25
\$22.25
\$438.76 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
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 | \$0.00
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\$0.00
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\$0.00 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00 | \$1,217.99
\$1,217.99
\$1,217.99
\$1,398.43
\$1,398.43
\$1,398.43
\$27,581.96
 |
| Sep-18
Oct-18
Nov-18
Dec-18
Total for 2018 | 2011-2018
2011-2018
2011-2018
2011-2018
2011-2018
2011-2018 | Q3
Q3
Q4
Q4
Q4
Q4 | 0.16%
0.16%
0.18%
0.18% | \$1,142.58
\$1,142.58
\$1,311.86
\$1,311.86
\$1,311.86 | \$216.78
\$216.78
\$248.90
\$248.90
\$248.90 | -\$500.22
-\$500.22
-\$500.22
-\$574.32
-\$574.32
-\$574.32
-\$11,327.67
-\$11,327.67
 | \$132.75
\$132.75
\$132.75
\$132.75
\$152.41
\$152.41 | \$206.72
\$206.72
\$206.72
\$237.34
\$237.34
\$237.34
\$4,681.23
\$4,681.23 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
 | \$19.38
\$19.38
\$19.38
\$22.25
\$22.25
\$22.25 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00 | \$0.00
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\$0.00 | \$0.00
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\$0.00
\$0.00
\$0.00
\$0.00 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00 | \$1,217.99
\$1,217.99
\$1,217.99
\$1,398.43
\$1,398.43
\$1,398.43
\$27,581.96
\$27,581.96
 |
| Sep-18 Oct-18 Nov-18 Dec-18 Total for 2018 Amount Cleare Opening Balar Jan-19 Feb-19 | 2011-2018
2011-2018
2011-2018
2011-2018
2011-2018
2011-2018
3d
4d
2011-2019
2011-2019 | Q3
Q3
Q4
Q4
Q4
Q4
Q1 | 0.16%
0.16%
0.18%
0.18%
0.18%
0.20% | \$1,142.58
\$1,142.58
\$1,142.58
\$1,311.86
\$1,311.86
\$1,311.86
\$25,874.38
\$25,874.38
\$1,481.13 | \$216.78
\$216.78
\$248.90
\$248.90
\$248.90
\$4,909.15
\$4,909.15
\$281.01 | -\$500.22
-\$500.22
-\$500.22
-\$574.32
-\$574.32
-\$574.32
-\$11,327.67
-\$41,327.67
-\$648.43
-\$648.43
 | \$132.75
\$132.75
\$132.75
\$152.41
\$152.41
\$152.41
\$3,006.12
\$3,006.12
\$172.08
\$172.08 | \$206.72
\$206.72
\$206.72
\$237.34
\$237.34
\$237.34
\$4,681.23
\$4,681.23 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
 | \$19.38
\$19.38
\$19.38
\$22.25
\$22.25
\$22.25
\$438.76
\$438.76 | \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00 | \$0.00
\$0.00
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 | \$0.00
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LRAMVA Work Form: Documentation for Streetlighting Projects

Version 4.0 (202

Legend

User Inputs (Green)

Instructions

Please provide documentation and/or data to substantiate program savings that were not provided in the IESO's verified results reports (i.e., streetlighting projects).

Distributors are encouraged to provide data in the following format, and complete a separate set of following tables for each project. The tables below are meant to be an example. Distributors should complete the tables based on the actual project details. Please create the necessary links to Tab 4/5 and tabulations within this LRAMVA workform to calculate the LRAMVA amounts. Alternatively, LDCs may submit a separate attachment with the project level details for billed demand by type of bulb.

Table 8-a: Name of Muncipality

Summary of Project #2016

	Actual lost revenue based on kW billing					
Month	Billed amount (kW)	Gross kW reduction	Months in Service	Net kW reduction		
	а	ь	С	b*c		
Jan-16			12	-		
Feb-16			11	-		
Mar-16			10	-		
Apr-16			9	-		
May-16	0.82		8	6.52		
Jun-16			7			
Jul-16	14.36		6	86.17		
Aug-16	222.68		5	1,113.42		
Sep-16	101.43		4	405.72		
Oct-16	104.37		3	313.10		
Nov-16	122.89		2	245.77		
Dec-16	142.92		1	142.92		
Total			1	2,314		
Persistence in	2017]	8,513.53		
Persistence in	2018		1	8,513.53		
Persistence in	2019			8,513.53		
Persistence in	2020			8,513.53		

Details of Project #1 (Month, Year)

re-conversion billing demand

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW
	d	e	d*e
LED Exterior Area Lights	0.815	1	0.82
LED Exterior Area Lights	14.362	1	14.36
LED Exterior Area Lights	222.685	1	222.68
LED Exterior Area Lights	37.286	1	37.29
Above represents 2440 lights			
LED Exterior Area Lights	64.1435	1	64.14
LED Exterior Area Lights	104.3675	1	104.37
LED Exterior Area Lights	122.8855	1	122.89
LED Exterior Area Lights	142.917	1	142.92
Above represents 4043 lights			
	ļ		
	1		
Total			709.46

Post-conversion billing demand

Month Converted	Billing Wattage (kW)	Quantity of Lights	Billed amount (kW)
	d ₁		dı*eı
May		6	
Jul		175	
Aug		1883	
Sept		376	
		2440	
Sept		554	
Oct		1062	
Nov		1383	
Dec		1044	
Dec .		4043	
Application numbers			
136445		2400	
136444		1817	
136446		2500	
		6717	
Lights converted in 2016		6483	
Remaining lights converted in 2017		234	
Total			0.00

Summary of Project #2017

	Actual los	t revenue base	d on kW billing	
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
				b*c
Jan-17				-
Feb-17				-
Mar-17			1	-
Apr-17				-
May-17			1	-
Jun-17				-
Jul-17			1	-
Aug-17	-		1	-
Sep-17	-			-
Oct-17	-		1	-
Nov-17	-		1	-
Dec-17	-		1	-
Total	1		1	-
Persistence in	2018		1	-
Persistence in	2019			-
Persistence in	2020			-
Darristanca ir	2021		1	

Details of Project #1 (Month, Year)

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW
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Post-conversion hilling demand

Fixture type	Billing Wattage (kW)	Quantity	(kW)
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Hydro Ottawa Limited EB-2019-0261 Exhibit 5 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 1 of 10

UPDATED COST OF CAPITAL AND CAPITAL STRUCTURE

2

1

3 1. INTRODUCTION

4 This Schedule provides an overview of Hydro Ottawa's capital structure, financing approach,

5 costs associated with short-term and long-term debt, and the calculation of Return on Equity

6 ("ROE") as required under section 2.5 of the Chapter 2 Filing Requirements for Electricity

7 Distribution Rate Applications, as updated on July 12, 2018 and addended on July 15, 2019.

8

9 2. CAPITAL STRUCTURE

10 Hydro Ottawa's capital structure is set in accordance with the OEB guidelines provided in the

11 Report of the Board on the Cost of Capital for Ontario's Regulated Utilities issued in 2009 (the

12 "OEB Cost of Capital Report").1 Hydro Ottawa targets a 60:40 debt to equity range, as

13 evidenced by the utility's past and current practices. The 60% debt component is comprised of a

14 targeted split between 56% long-term debt and 4% short-term debt.

15

16 UPDATED Attachment 5-1-1(A): Appendix 2-OA - Capital Structure and Cost of Capital outlines

17 Hydro Ottawa's capital structure for both the OEB-approved years of 2016-2020 and the Test

18 Years of 2021-2025.

19

3. FINANCING APPROACH

- 21 Hydro Ottawa continues to use a financing approach whereby funding is received through its
- 22 parent company, Hydro Ottawa Holding Inc. ("Holding Company"). All external debt is managed
- 23 by the Holding Company as it maintains a strong investment grade credit rating at the parent
- 24 company level for financing purposes. This credit rating is required for the Holding Company to
- 25 issue private debt issuances into the Canadian debt market to support its subsidiaries/affiliates'
- 26 financing requirements. Hydro Ottawa receives all of its financing from the Holding Company via

Ontario Energy Board, Report of the Board on the Cost of Capital for Ontario's Regulated Utilities, EB-2009-0084 (December 11, 2009).



Hydro Ottawa Limited EB-2019-0261 Exhibit 5 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 2 of 10

- 1 intercompany loans on a "pass through" basis for the rates, terms, and conditions that the
- 2 Holding Company receives from the external markets.

3

- 4 It is Hydro Ottawa's intention to provide regulatory efficiency and rate stability over the five-year
- 5 term of this Application by committing to the cost of capital parameters shown for each year and
- 6 to not make any updates to any component of the cost of capital for the period covered.

7

8 3.1. CREDIT RATING

- 9 The current credit rating for the Holding Company by Dominion Bond Rating Service ("DBRS")
- 10 is "A" / Negative Trend and by Standard and Poor's Global ("S&P") "BBB+" / Stable.

11

- 12 The most recent credit rating reports are provided in Attachment 1-3-4(A): Ratings Report for
- 13 Hydro Ottawa Holding Inc. issued by Dominion Bond Rating Service and Attachment 1-3-4(B):
- 14 Ratings Report for Hydro Ottawa Holding Inc. issued by Standard and Poor's.

15

16 3.2. SHORT-TERM DEBT

- 17 The Holding Company maintains short-term credit facilities to support the liquidity needs of
- 18 Hydro Ottawa. These facilities are used to cover periodic working capital deficiencies, bridge
- 19 financing requirements until long-term debt is warranted, and post required prudentials with the
- 20 Independent Electricity System Operator ("IESO").

21

- The cost of short-term financing is passed onto Hydro Ottawa on the same terms and conditions
- 23 that the Holding Company receives from external markets through its credit facilities. Terms and
- 24 conditions of short-term borrowings are governed by the "Credit Agreement" dated January 1,
- 25 2009, which is appended to this Application as Attachment 5-1-1(C): Credit Agreement as
- 26 Amended.

- 28 For the purpose of this Application, Hydro Ottawa has utilized the short-term debt rate of 2.75%,
- 29 as provided in the OEB's 2020 Cost of Capital Parameters letter dated October 31, 2019, for the



Hydro Ottawa Limited EB-2019-0261 Exhibit 5 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 3 of 10

1 years 2021-2025.2 This will provide regulatory efficiency and rate stability by leaving this rate in

2 effect until December 31, 2025.

3

4 3.3. LONG-TERM DEBT

5 As required, the Holding Company issues long-term debt to support the financing requirements

6 of Hydro Ottawa. Similar to short-term financing, the costs associated with long-term financing

7 are also passed on to Hydro Ottawa on the same terms and conditions as the Holding Company

8 receives from the external markets.

9

In the absence of associated external financing at the Holding Company level, long-term debt is charged to Hydro Ottawa at the deemed cost of debt as calculated at the time of the fund transfer, as per the methodology of the OEB Cost of Capital Report. All debt using a deemed rate accumulates until the next external long-term financing is conducted by the Holding Company, at which time the deemed rates are converted into the new rate, terms, and conditions as per the external bond issuance, which includes the actual cost of debt plus any incurred issuance costs. Any issuance costs are amortized over a five-year period which is consistent with the write-off for tax purposes.

18

By using this approach, Hydro Ottawa primarily relies on the embedded or actual cost of long-term debt and only uses the deemed long-term debt rate as a proxy to bridge the period between external financings.

22

The markets are not receptive to long-term debt issuances under \$100M due to liquidity and listing requirements, and therefore smaller issuances, if attainable, would dictate premium pricing. As well, smaller and more frequent issuances will incur more costs than larger, less frequent issuances due to the fixed nature of most of the required issuance costs. The financing arrangement between Hydro Ottawa and the Holding Company is beneficial to both Hydro Ottawa and ratepayers, as it allows the utility to target the deemed capital structure and borrow

. .

²⁹ Ontario Energy Board, Letter re: 2020 Cost of Capital Parameters (October 31, 2019).



Hydro Ottawa Limited EB-2019-0261 Exhibit 5 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 4 of 10

1 in smaller tranches (without paying premiums) than would otherwise be attainable in the

2 financial markets.

3

4 If the Holding Company has not issued any new external debt when the aggregate of Hydro

5 Ottawa's smaller debt issuances using the deemed long-term debt rate reach a quantum where

6 an external bond issuance would otherwise be prudent and cost-effective (generally

7 approximately \$150M-\$250M for Hydro Ottawa), the indicative borrowing rate for the Holding

8 Company will be utilized to emulate an external issuance at that time.

9

Accordingly, on October 16, 2019, Hydro Ottawa issued two new promissory notes to the Holding Company comprised of tenures of 10 years and 30 years, for a combined aggregate principal of \$250M. The 10-year and 30-year promissory notes bear interest at a fixed rate of 2.66% and 3.21%, respectively. The rates for the promissory notes were based on the prevailing BMO Capital Markets weekly indicative rates for the Holding Company, with no allowance for issuance costs. With this issuance, Hydro Ottawa secured long-term financing at a time when the Government of Canada 10-year and 30-year bond yields were close to historical lows. The proceeds from this issuance were used to convert the \$180M of accumulated long-term debt using the deemed rate at a weighted average rate of 3.94%, as well as to reduce the short-term borrowings by \$70M in order to bring the short-term amount in line with the deemed capital structure of 4%. Hydro Ottawa has reflected these rates in the weighted average long-term debt rates for 2019-2025, as calculated in Attachment 5-1-1(B): OEB Appendix 2-OB - Debt Instruments.

23

As shown in Attachment 5-1-1(B): Appendix 2-OB - Debt Instruments, this issuance has reduced the weighted average cost of existing embedded long-term debt as of December 31, 2020 to 3.35%.

27

8 The financial strength of the Holding Company and this type of financing arrangement optimizes

29 Hydro Ottawa's borrowing requirements on both short-term and long-term financing. It provides



Hydro Ottawa Limited EB-2019-0261 Exhibit 5 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 5 of 10

- 1 financing to Hydro Ottawa in tranches that meets its capital structure requirements using both
- 2 actual and deemed rates in an objective and transparent manner. In turn, this minimizes
- 3 borrowing costs for the utility and ratepayers, as can be seen by the weighted average
- 4 long-term debt rate forecast range of 3.35% to 3.69% for the years 2021-2025 shown in Table 3
- 5 below.
- 7 The current long-term debt notes issued by Hydro Ottawa are included as the following
- 8 Attachments to this Schedule:
- 9
- Attachment 5-1-1(D): Grid Promissory Note
- Attachment 5-1-1(E): Hydro Ottawa Limited \$138.667M Promissory Note
- Attachment 5-1-1(F): Hydro Ottawa Limited \$121.333M Promissory Note
- Attachment 5-1-1(G): Hydro Ottawa Limited \$107.185M Promissory Note
- Attachment 5-1-1(H): Hydro Ottawa Limited \$50M Promissory Note
- Attachment 5-1-1(I): Hydro Ottawa Limited \$15.999M Promissory Note
- Attachment 5-1-1(J): Hydro Ottawa Limited \$14.001M Promissory Note
- Attachment 5-1-1(K): Hydro Ottawa Limited \$87.5M Promissory Note
- Attachment 5-1-1(L): Hydro Ottawa Limited \$162.5M Promissory Note
- 19
- 20 There was no profit or loss on redemption of debt.
- 21

22 3.4. ANTICIPATED LONG-TERM DEBT

- 23 Hydro Ottawa plans to issue further long-term debt to support its ongoing capital expenditure
- 24 requirements, as presented in this Application. The anticipated additional borrowing requirement
- 25 for Hydro Ottawa from 2021-2025 is outlined in Table 1 below.



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Table 1 – Anticipated Long-Term Borrowing Requirements (\$'000,000s)

Year	Amount
2021	\$80.0
2022	\$0.0
2023	\$60.0
2024	\$0.0
2025	\$0.0

2

1

3 3.5. COST OF LONG-TERM DEBT

- 4 The long-term debt rate is calculated as the weighted average rate of existing embedded debt
- 5 and forecast debt planned to be issued from 2021-2025. The calculation to determine the
- 6 anticipated long-term debt rate is comprised of three components:

7

8

- The forecast Government of Canada 10-year bond yield;
- The 30-year to 10-year Government of Canada bond yield spread; and
- The Hydro Ottawa credit risk spread.

11

12 The use of these three components emulates the calculation of the OEB Cost of Capital Report.

13

- 14 The underlying forecast for the Government of Canada 10-year yield is that which is presented
- 15 in the October 2019 Consensus Long-Term Forecast (which is issued twice per year, in October
- 16 and April).

- 18 Hydro Ottawa 10-year bonds are forecast by adding the Hydro Ottawa historical credit spread of
- 19 112 basis points ("bps") for 10-year bonds to the forecast Government of Canada 10-year yield.



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- 1 The 30-year Government of Canada bond yield is calculated using the Consensus Long-Term
- 2 Forecast 10-year bond yield plus 44 bps, which as of October 2019 is the historical five-year
- 3 average spread of the 30-year over 10-year Government of Canada bond yield, as calculated
- 4 per the OEB Cost of Capital Report.

5

6 Hydro Ottawa 30-year bonds are then forecast by adding the Hydro Ottawa historical credit

7 spread of 148 bps for 30-year bonds to the forecast 30-year Government of Canada yields.

8

9 The Hydro Ottawa historical credit spreads used for 10-year and 30-year bonds are as of

10 October 2019 and are based on the average Bank of Montreal ("BMO") Capital Markets

11 indicative spreads over the past two-and-a-half years for the Holding Company. Table 2

12 summarizes the forecasted Hydro Ottawa long-term debt rates for 10-year and 30-year debt

13 issuances for 2021-2025.

14

15

Table 2 – Forecast Yield for Long-Term Debt Issuances (2021-2025)

Year	Govt. of Canada 10-Year Yield (based on October 2019 Consensus Forecast) ³	Hydro Ottawa Historical 10-Year Spread	Forecast Hydro Ottawa Yield 10-Year Bonds	Historical Spread (30-Year Govt. Yield over 10-Year Govt. Yield)	Govt. of Canada 30-Year Yield	Hydro Ottawa Historical 30-Year Spread	Forecast Hydro Ottawa Yield 30-Year Bonds
2021	1.95%	112 bps	3.07%	44 bps	2.39%	148 bps	3.87%
2022	2.45%	112 bps	3.57%	44 bps	2.89%	148 bps	4.37%
2023	2.80%	112 bps	3.92%	44 bps	3.24%	148 bps	4.72%
2024	3.00%	112 bps	4.12%	44 bps	3.44%	148 bps	4.92%
2025	3.10%	112 bps	4.22%	44 bps	3.54%	148 bps	5.02%

16

17 Hydro Ottawa has used the forecasted weighted average long-term debt rates for calculating

18 the revenue requirement for 2021-2025, as shown in Table 3 below.

¹⁹ This is the average percentage for mid-year issuance.



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Table 3 – Forecast Weighted Average Long-Term Debt Rate

Year	Rate
2021	3.35%
2022	3.36%
2023	3.40%
2024	3.44%
2025	3.69%

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3 The weighted average long-term debt rate reflects the Hydro Ottawa historical and prospective

allocation of debt issuances between 10-year and 30-year tenures of 35% and 65%,

5 respectively.

6

7 Attachment 5-1-1(B): Appendix 2-OB - Debt Instruments outlines the amounts and associated

8 interest rates for all of the utility's long-term debt instruments as well as the weighted average

9 long-term debt rate for the Historical, Bridge, and Test Years.

10

11 4. RETURN ON EQUITY

12 Hydro Ottawa has used a forecast ROE for the full five-year period covered by this Application.

13 This is in line with the guidance set forth in the Handbook for Utility Rate Applications, which

14 states that "the OEB expects there to be no further rate applications for annual updates within

15 the five-year term" and "the OEB does not expect to address annual rate applications for

16 updates for cost of capital." Hydro Ottawa has followed this guidance and has proposed an

17 ROE that balances Hydro Ottawa's expectation of a reasonable return with customers' needs

18 for investment in the system, while providing regulatory efficiency. Hydro Ottawa has utilized the

19 OEB's formulaic calculation in determining the forward-looking ROE.

^{. .}

²⁰ Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 26.



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1 The ROE calculation utilizes three components:

2

3

- The Consensus Forecast Government of Canada 10-year bond yield;
- The 30-year to 10-year Government of Canada bond yield spread; and
- Change in A-rated Utility Bond Yield Spread from September 2009.

6

- 7 The ROE calculation in the model utilizes Consensus Forecast forward-looking rates for 10-year
- 8 bonds on a three-month and 12-month basis. To forecast the ROE over the five-year period of
- 9 2021-2025, the October 2019 Consensus Long-Term Forecast was utilized using the average
- 10 annual yield for 10-year bonds.

11

- 12 Similar to long-term debt, the 30-year Government of Canada bond yield is then calculated
- 13 using the forecast 10-year bond yield plus 44 bps, which is the five-year historical average
- 14 spread of the 30-year over 10-year Government of Canada bond yield as calculated per the
- 15 OEB Cost of Capital Report.

16

- 17 To determine the change in A-rated 30-year Utility Bond Yield spreads, the five-year historical
- 18 average spread as utilized in the Cost of Capital calculations up to October 2019 was used. This
- 19 five-year historical average equals 154 bps.

- 21 The calculations for the ROE forecast using the three components for the OEB's formulaic
- 22 calculation for ROE are shown in Table 4 below.



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Table 4 – 2021-2025 Forecast ROE

	2021	2022	2023	2024	2025				
Long Canada Bond Forecast ("LCBF")		LULL	2020	LULT	Loco				
Consensus Forecast (@ December 31)	2.20%	2.70%	2.90%	3.10%	3.10%				
Average for Year	1.95%	2.45%	2.80%	3.00%	3.10%				
30-Year over 10-Year Govt. Spread	0.44%	0.44%	0.44%	0.44%	0.44%				
LCBF	2.39%	2.89%	3.24%	3.44%	3.54%				
ROE Forecast									
Initial ROE (A)	9.75%	9.75%	9.75%	9.75%	9.75%				
Change in LCBF from September 2009									
LCBF	2.39%	2.89%	3.24%	3.44%	3.54%				
Base LCBF (as per OEB Cost of Capital Report)	4.25%	4.25%	4.25%	4.25%	4.25%				
Difference	(1.86)%	(1.36)%	(1.01)%	(0.81)%	(0.71)%				
Difference X 0.5 (B)	(0.93)%	(0.68)%	(0.50)%	(0.40)%	(0.35)%				
Change in A-rated Utility Bond Yield S	pread from	Septembe	r 2009						
A-rated Utility Bond Yield Spread	1.54%	1.54%	1.54%	1.54%	1.54%				
Base A-rated Utility Bond Yield Spread (as per OEB Cost of Capital Report)	1.42%	1.42%	1.42%	1.42%	1.42%				
Difference	0.12%	0.12%	0.12%	0.12%	0.12%				
Difference X 0.5 (C)	0.06%	0.06%	0.06%	0.06%	0.06%				
FORECAST ROE (A+B+C)	8.88%	9.13%	9.31%	9.41%	9.46%				

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3 5. PREFERRED SHARES

- 4 Hydro Ottawa does not currently have any preferred shares issued nor has the utility forecasted
- 5 for any issuance of preferred shares for the Bridge or Test Years.

UPDATED - Appendix 2-OA Capital Structure and Cost of Capital

This table must be completed for the last OEB-approved year and the test year.

OEB-approved year: 2016

ine No.	Particulars	Capita	alizati	on Ratio	Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$466,546,818	3.53%	\$16,461,102
2	Short-term Debt	4.00%	(1)	\$33,324,773	2.16%	\$719,815
3	Total Debt	60.0%		\$499,871,591	3.44%	\$17,180,917
	Equity					
4	Common Equity	40.00%		\$333,247,727	9.19%	\$30,625,466
5	Preferred Shares			\$ -		\$
	Total Equity	40.0%		\$333,247,727	9.19%	\$30,625,466
6	Total Equity					

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

OEB-approved year: 2017

Line No.	Particulars	Capitalization Ratio			Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$487,059,449	3.58%	\$17,460,502
2	Short-term Debt	4.00%	(1)	\$34,789,961	2.16%	\$751,463
3	Total Debt	60.0%		\$521,849,410	3.49%	\$18,211,965
	Equity					
4	Common Equity	40.00%		\$347,899,606	9.19%	\$31,971,974
5	Preferred Shares			\$ -		\$ -
6	Total Equity	40.0%		\$347,899,606	9.19%	\$31,971,974
7	Total	100.0%		\$869,749,016	5.77%	\$50,183,939

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

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OEB-approved year: 2018

Line No.	Particulars	Capita	alization Ratio	Cost Rate	Return
		(%)	(\$)	(%)	(\$)
	Debt				
1	Long-term Debt	56.00%	\$511,195,528	3.65%	\$18,653,109
2	Short-term Debt	4.00%	(1) \$36,513,966	2.16%	\$788,702
3	Total Debt	60.0%	\$547,709,495	3.55%	\$19,441,810
	Equity				
4	Common Equity	40.00%	\$365,139,663	9.19%	\$33,556,335
5	Preferred Shares		\$ -		\$ -
6	Total Equity	40.0%	\$365,139,663	9.19%	\$33,556,335
7	Total	100.0%	\$912,849,158	5.81%	\$52,998,145

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

OEB-approved year:

<u>2019</u>

Line No.	Particulars	Capitalization Ratio			Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$524,229,507	3.70%	\$19,381,245
2	Short-term Debt	4.00%	(1)	\$37,444,965	2.82%	\$1,055,948
3	Total Debt	60.0%		\$561,674,472	3.64%	\$20,437,193
	Equity					
4	Common Equity	40.00%		\$374,449,648	8.98%	\$33,625,578
5	Preferred Shares			\$ -		\$ -
6	Total Equity	40.0%		\$374,449,648	8.98%	\$33,625,578
7	Total	100.0%		\$936,124,120	5.78%	\$54,062,771

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

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Last OEB-approved year: 2020 (Bridge Year)

Line No.	Particulars	Capitalization Ratio			Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$545,328,692	3.69%	\$20,135,291
2	Short-term Debt	4.00%	(1)	\$38,952,049	2.82%	\$1,098,448
3	Total Debt	60.0%		\$584,280,741	3.63%	\$21,233,739
	Equity					
4	Common Equity	40.00%		\$389,520,494	8.98%	\$34,978,940
5	Preferred Shares			\$ -		\$ -
6	Total Equity	40.0%		\$389,520,494	8.98%	\$34,978,940
7	Total	100.0%		\$973,801,235	5.77%	\$56,212,679

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

Test Year:

<u>2021</u>

Line No.	Particulars	Capitalization Ratio			Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$689,212,278	3.35%	\$23,088,611
2	Short-term Debt	4.00%	(1)	\$49,229,448	2.75%	\$1,353,810
3	Total Debt	60.0%		\$738,441,727	3.31%	\$24,442,421
	Equity					
4	Common Equity	40.00%		\$492,294,484	8.88%	\$43,715,750
5	Preferred Shares			\$ -		\$ -
6	Total Equity	40.0%		\$492,294,484	8.88%	\$43,715,750
7	Total	100.0%		\$1,230,736,211	5.54%	\$68,158,171

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

Test Year:	2022
Test Year:	2022

Line No.	Particulars	Capitalization Ratio			Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$736,796,601	3.36%	\$24,756,366
2	Short-term Debt	4.00%	(1)	\$52,628,329	2.75%	\$1,447,279
3	Total Debt	60.0%		\$789,424,930	3.32%	\$26,203,645
	Equity					
4	Common Equity	40.00%		\$526,283,286	9.13%	\$48,049,664
5	Preferred Shares			\$ -		\$ -
6	Total Equity	40.0%	40.0%		9.13%	\$48,049,664
7	Total	100.0%		\$1,315,708,216	5.64%	\$74,253,309

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

Test Year:

<u>2023</u>

Line No.	Particulars	Capitalization Ratio			Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$763,605,809	3.40%	\$25,962,598
2	Short-term Debt	4.00%	(1)	\$54,543,272	2.75%	\$1,499,940
3	Total Debt	60.0%		\$818,149,081	3.36%	\$27,462,537
	Equity					
4	Common Equity	40.00%		\$545,432,721	9.31%	\$50,779,786
5	Preferred Shares			\$ -		\$ -
6	Total Equity	40.0%		\$545,432,721	9.31%	\$50,779,786
7	Total	100.0%		\$1,363,581,802	5.74%	\$78,242,324

Notes (1)

4.0% unless an applicant has proposed or been approved for a different amount.

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Test Year: 2024

Line No.	Particulars	Capitalization Ratio			Cost Rate	R	eturn
		(%)		(\$)	(%)		(\$)
	Debt						
1	Long-term Debt	56.00%		\$778,898,234	3.44%	\$26	,794,099
2	Short-term Debt	4.00%	(1)	\$55,635,588	2.75%	\$1	,529,979
3	Total Debt	60.0%	60.0%		3.39%	\$28	,324,078
	Equity						
4	Common Equity	40.00%		\$556,355,882	9.41%	\$52	,353,088
5	Preferred Shares			\$ -			\$ -
6	Total Equity	40.0%	40.0%		9.41%	\$52	,353,088
7	Total	100.0%		\$1,390,889,704	5.80%	\$80	,677,166

<u>Notes</u>

(1) 4.0% unless an applicant has proposed or been approved for a different amount.

Test Year:

<u>2025</u>

Line No.	Particulars	Capitalization Ratio			Cost Rate	Return
		(%)		(\$)	(%)	(\$)
	Debt					
1	Long-term Debt	56.00%		\$803,024,257	3.69%	\$29,631,595
2	Short-term Debt	4.00%	(1)	\$57,358,876	2.75%	\$1,577,369
3	Total Debt	60.0%		\$860,383,133	3.63%	\$31,208,964
	Equity					
4	Common Equity	40.00%		\$573,588,755	9.46%	\$54,261,496
5	Preferred Shares			\$ -		\$ -
6	Total Equity	40.0%		\$573,588,755	9.46%	\$54,261,496
_	T-4-1	100.0%		\$1,433,971,888	5.96%	\$85,470,460
1	Total	100.0%		φ1,433,911,000	5.96%	φου,470,460

Notes (1)

4.0% unless an applicant has proposed or been approved for a different amount.



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UPDATED CALCULATION OF REVENUE DEFICIENCY OR SUFFICIENCY

2

3 1. INTRODUCTION

This Schedule provides a summary of the revenue requirement being requested by Hydro Ottawa for 2021-2025 in order to continue delivering electricity safely and reliably. The utility's total Service Revenue Requirement is offset by revenues obtained by sources other than distribution rates (i.e. other revenue). The calculation of the revenue deficiency/sufficiency does not include the recovery of deferral and variance accounts, as outlined in UPDATED Exhibit 9-3-1: Disposition of Deferral and Variance Accounts, or Low Voltage Charges as outlined in Exhibit 8-8-1: Low Voltage Service Rates. As directed in the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and July 15, 2019, costs and revenues related to the cost of power are kept separate from the determination of the distribution revenue sufficiency/deficiency.

14

15 2. CALCULATION OF DEFICIENCY OR SUFFICIENCY

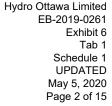
16 The revenue deficiency/sufficiency for 2021-2025 was calculated using the following inputs:

1718

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- 2020 proposed approved rates; and
- 2021-2025 load forecast and forecast of customers and connections, as developed using the methodology described in UPDATED Exhibit 3-1-1: Load Forecast.

- The revenue deficiency/sufficiency was then determined by calculating what the revenue would
- have been with 2020 rates and the forecasted 2021-2025 load and customer numbers. As a
- result, revenue deficiency in the tables of this Schedule and Revenue Requirement Workforms produce a cumulative revenue requirement rather than a year-over-year revenue requirement.
- 26 Hydro Ottawa compiled the analysis in this matter, as the 2020 rates give a stable base upon
- 27 which to compare each year.





1 2.1. REVENUE DEFICIENCY/SUFFICIENCY 2016-2020

2 Table 1 outlines the revenue deficiency/sufficiency for 2016-2020 using the following inputs:

4 • 2015 approved rates;

5

8

9

10

- 2016-2020 approved load forecast and forecast of customers/connections; and
- 2016-2020 base revenue requirement, as per the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term, including the mid-term adjustments.¹

Table 1 – Approved Revenue Deficiency/Sufficiency for 2016-2020 with Mid-Term Adjustments (\$'000s)

	2016	2017	2018	2019	2020
Return on Rate Base	\$47,805	\$50,185	\$52,999	\$54,062	\$56,211
Distribution Expenses (not including amortization)	\$83,106	\$84,693	\$86,311	\$87,648	\$89,007
Amortization	\$40,379	\$43,558	\$46,388	\$48,158	\$49,384
Payment in Lieu of Taxes	\$3,755	\$3,634	\$4,897	\$6,914	\$5,943
Service Revenue Requirement	\$175,045	\$182,070	\$190,594	\$196,782	\$200,544
Less Revenue Offsets Per Approved Settlement Agreement Adjustment per Pole Attachment Decision ²	\$11,697 \$(225)	\$11,563 \$(225)	\$11,719 \$(282)	\$11,799 \$(282)	\$11,895 \$(282)
Base Revenue Requirement	\$163,573	\$170,733	\$179,157	\$185,264	\$188,931
Transformer Ownership Credit	\$1,125	\$1,114	\$1,109	\$1,106	\$1,105
Revenue Requirement from Rates	\$164,698	\$171,847	\$180,266	\$186,371	\$190,036
Forecasted Load at 2015 Rates	\$159,360	\$158,986	\$159,421	\$159,977	\$160,464
Cumulative Revenue Deficiency (over 2015)	\$(5,338)	\$(12,861)	\$(20,845)	\$(26,394)	\$(29,572)
Yearly Revenue Deficiency over 2015	\$(5,338)	\$(7,523)	\$(7,984)	\$(5,549)	\$(3,179)

¹¹

¹² Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).

^{13 &}lt;sup>2</sup> Ontario Energy Board, *Decision and Rate Order on Pole Attachment Charge*, EB-2015-0004 (February 25, 2016).



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1 2.2. REVENUE DEFICIENCY/SUFFICIENCY 2021-2025

- 2 Table 2 as updated below shows 2021-2025 base revenue requirement calculations. More
- 3 details for each year can be found in the Revenue Requirement Workforms ("RRWF") attached
- 4 to this Schedule:

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- **UPDATED** Attachment 6-1-1(A): OEB Workform 2021 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(B): OEB Workform 2022 Revenue Requirement Workform
- UPDATEDAttachment 6-1-1(C): OEB Workform 2023 Revenue Requirement Workform
 - UPDATED Attachment 6-1-1(D): OEB Workform 2024 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(E): OEB Workform 2025 Revenue Requirement Workform

11

- 12 The references to Costs Allocated from Previous Study and Previously Approved Ratios on
- 13 Sheet 11 Cost Allocation in the RRWF Workforms refer to 2020 in each case. In addition, the
- 14 difference in Sheet 11 Cost Allocation between columns (7C) and (7D) is the difference between
- 15 allocated Base Revenue Requirement and achieved Base Revenue Requirement.

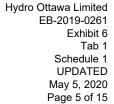


Table 2 – AS ORIGINALLY SUBMITTED – Revenue Deficiency/Sufficiency for 2021-2025

2 **(\$'000s)**

	2021	2022	2023	2024	2025
Return on Rate Base	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027
Payment in Lieu of Taxes	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689
Service Revenue Requirement	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053
Less Revenue Offsets	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483
Forecasted Load at 2020 Rates	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468
Cumulative Revenue Deficiency (over 2020)	\$(17,060)	\$(33,149)	\$(43,719)	\$(51,609)	\$(57,014)
Yearly Revenue Deficiency over 2020 ³	\$(17,060)	\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)

 $^{^{4}\,\,}$ Totals may not sum due to rounding.





1 Table 2 – UPDATED FOR 2019 ACTUALS – Revenue Deficiency/Sufficiency for 2021-2025 2 (\$'000s)

	2021	2022	2023	2024	2025
Return on Rate Base	\$68,158	\$74,253	\$78,242	\$80,677	\$85,470
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,333	\$56,699	\$59,015	\$60,585	\$63,900
Payment in Lieu of Taxes	\$2,224	\$3,881	\$8,604	\$11,533	\$7,590
Service Revenue Requirement	\$216,638	\$231,113	\$244,558	\$253,969	\$260,674
Less Revenue Offsets	\$11,013	\$10,971	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$205,624	\$220,142	\$232,891	\$241,817	\$248,217
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104
Forecasted Load at 2020 Rates	\$187,888	\$188,816	\$189,699	\$190,686	\$191,453
Cumulative Revenue Deficiency (over 2020)	\$(18,792)	\$(32,381)	\$(44,248)	\$(52,190)	\$(57,651)
Yearly Revenue Deficiency over 2020⁴	\$(18,792)	\$(13,589)	\$(11,867)	\$(7,942)	\$(5,461)

4 Table 3, as updated below, provides Revenue Deficiency that is calculated by multiplying the

⁵ previous Test Year's updated rates against the current Test Year's updated load forecast.

 $^{^{6}\,\,}$ 4 Totals may not sum due to rounding.



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1 Table 3 – AS ORIGINALLY SUBMITTED – Revenue Sufficiency/Deficiency using Prior Test

Year's Rates (\$'000s)

	2021	2022	2023	2024	2025
Total Revenue Requirement from Rates	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483
Forecast Load at Prior Year's Rates	\$187,905	\$205,984	\$223,009	\$234,675	\$243,259
Yearly Revenue Deficiency	\$(17,060)	\$(15,998)	\$(10,425)	\$(7,637)	\$(5,224)

Table 3 – UPDATED FOR 2019 ACTUALS – Revenue Sufficiency/Deficiency using Prior

5 Test Year's Rates (\$'000s)

	2021	2022	2023	2024	2025
Total Revenue Requirement from Rates	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104
Forecast Load at Prior Year's Rates	\$187,888	\$207,709	\$222,206	\$235,192	\$243,831
Yearly Revenue Deficiency	\$(18,792)	\$(13,489)	\$(11,741)	\$(7,684)	\$(5,273)

7 3. YEAR-OVER-YEAR REVENUE DEFICIENCY/SUFFICIENCY

- 8 Table 4<mark>, as updated</mark> below<mark>,</mark> provides the 2020-2021 year-over-year revenue
- 9 deficiency/sufficiency amounts and major cost drivers. The references to other Exhibits in this
- 10 Application indicate where additional details on year-over-year variance and cost drivers can be
- 11 found.

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1 Table 4 – AS ORIGINALLY SUBMITTED – 2020-2021 Revenue Deficiency Amounts & Cost **Drivers** (\$'000s)⁵

Driver of Deficiency	2020 OEB- Approved ⁶	2021 Test Year	+/-	Cost Drivers	Exhibit Reference
Return on Rate Base	\$56,211	\$67,489	\$11,278	\$173.8M increase in net fixed assetsPreviously excluded items added back to rate base	2-1-1
Distribution Expenses (not including amortization)	\$89,007	\$93,923	\$4,916	 Increases in compensation Inflationary increases Increase in distribution operations expenses 	1-1-8 (Table 5) 4-1-3 4-1-4
Amortization	\$49,384	\$52,450	\$3,066	- Increase in sustainment additions	2-2-1 2-2-1(E)-(F) 2-4-3(E)
Payment in Lieu of Taxes	\$5,943	\$1,024	\$(4,919)	Higher CCA deduction caused by large amount of fixed asset additions	4-4-1 4-4-1(D)
Service Revenue Requirement	\$200,544	\$214,886	\$14,342		6-1-1(A)
Less Revenue Offsets ⁷	\$11,613	\$10,977	\$(636)	- Changes in other revenue rates	3-2-1
Base Revenue Requirement	\$188,931	\$203,909	\$14,978		6-1-1(A) 8-1-1
Transformer Ownership Credit	\$1,105	\$1,056	\$(49)	- Changes in load forecast	3-1-1
Revenue Requirement from Rates	\$190,036	\$204,965	\$14,929		6-1-1(A)
Forecasted Load at 2015/2020 Rates	\$160,464	\$187,905	\$27,441	 Changes in load forecast Increase in distribution rates Impact of revenue requirement item in Regulatory Accounts 	3-1-1 8-12-1 9-1-3
Cumulative Revenue Deficiency (over 2020)		\$(17,060)			

^{4 &}lt;sup>5</sup> Totals may not sum due to rounding. 5 ⁶ This figure includes mid-term adjustments.

⁶ The amount for 2020 includes adjustments as per the OEB's Pole Attachment Decision (see footnote 2 above).

Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 **UPDATED** May 5, 2020 Page 8 of 15



2

Table 4 - UPDATED FOR 2019 ACTUALS - 2020-2021 Revenue Deficiency Amounts & Cost Drivers (\$'000s)8

				C13 (\$\psi\$ 0003)	
Driver of Deficiency	2020 OEB- Approved ⁹	2021 Test Year	+/-	Cost Drivers	Exhibit Reference
Return on Rate Base	\$56,211	\$68,158	\$11,947	 \$173.8M increase in net fixed assets (as originally submitted) \$171.9M increase in net fixed assets (accounting for 2019 actuals) Previously excluded items added back to rate base 	UPDATED 2-1-1
Distribution Expenses (not including amortization)	\$89,007	\$93,923	\$4,916	 Increases in compensation Inflationary increases Increase in distribution operations expenses 	UPDATED 1-1-8 (Table 5) UPDATED 4-1-3 UPDATED 4-1-4
Amortization	\$49,384 \$52,333 \$2,949 - Increase in susta		- Increase in sustainment additions	UPDATED 2-2-1 2-2-1(E)-(F) 2-4-3(E)	
Payment in Lieu of Taxes	\$5,943	\$ 2,224	\$(3,719)	 Higher CCA deduction caused by large amount of fixed asset additions (as originally submitted) Higher accounting depreciation add back caused by large amount of fixed asset additions (accounting for 2019 actuals) 	UPDATED 4-4-1 4-4-1(D)
Service Revenue Requirement	\$200,544	\$ 216,638	\$ 16,094		UPDATED 6-1-1(A)
Less Revenue Offsets ¹⁰	\$11,613	\$ 11,013	\$(600)	- Changes in other revenue rates	UPDATED 3-2-1
Base Revenue Requirement	\$188,931	\$ 205,624	\$16,693		UPDATED 6-1-1(A) UPDATED 8-1-1
Transformer Ownership Credit	\$1,105	\$1,056	\$(49)	- Changes in load forecast	UPDATED 3-1-1
Revenue Requirement from Rates	\$190,036	\$206,680	\$16,644		UPDATED 6-1-1(A)
Forecasted Load at 2015/2020 Rates	\$160,464	\$187,888	\$27,424	 Changes in load forecast Increase in distribution rates Impact of revenue requirement item in Regulatory Accounts 	UPDATED 3-1-1 UPDATED 8-12-1 UPDATED 9-1-3
Cumulative Revenue Deficiency (over 2020)		\$(18,792)			

^{3 8} Totals may not sum due to rounding.
4 9 This figure includes mid-term adjustments.

⁵ The amount for 2020 includes adjustments as per the OEB's Pole Attachment Decision (see footnote 2 above).



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- 1 Table 5, as revised and updated below, provides the 2020-2025 year-over-year revenue
- 2 requirement amounts, the increase or decrease from prior test year, major cost drivers, and
- 3 references to Exhibits where further information on the drivers can be found.



Table 5 - AS ORIGINALLY SUBMITTED - 2021-2025 Revenue Deficiency Amounts & Drivers (\$'000s)¹

		Bridge ²			Test			Drivers	Reference
		2020	2021	2022	2023	2024	2025		
Return on	\$	\$66,298	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624	Annual increases in net fixed assets and	
Rate Base	+/-		\$1,191	\$6,099	\$3,853	\$2,419	\$4,763	working capital	2-1-1
Distribution Expenses	\$	\$91,990	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714	Annual inflationary increases and increases in	1-1-8 (Table 6)
(not including amortization)	+/-		\$1,933	\$2,357	\$2,417	\$2,477	\$2,539	compensation	4-1-3 4-1-4
	\$	\$50,723	\$52,450	\$56,860 \$59,142 \$60,711 \$64,027			2-2-1 2-2-1(E)-(J)		
Amortization	+/-		\$1,727	\$4,410	\$2,282	\$1,570	\$3,315	Annual increases in sustainment additions	2-4-3(E) 6-6-1 (Table 3)
Payment in Lieu of	\$	\$2,362	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689	2021 & 2025 - Decrease due to increase in accelerated CCA, large amount of fixed assets placed into service	4-4-1
Taxes	+/-		\$(1,338) \$4,187 \$3,555 \$2,894 \$(3,		\$(3,970)	2022-2024 - Increases due to higher accounting depreciation and lower accelerated CCA	4-4-1(D)-(H)		
Service Revenue	\$	\$211,374	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053		6-1-1(A)-(E)
Requirement	+/-		\$3,512	\$17,053	\$12,106	\$9,360	\$6,648		0 1 1(A)-(L)

Totals may not sum due to rounding.
 Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

⁴ Accounts.



		Bridge ³ (Cont'd)		Т	est (Cont'd)		Drivers (Cont'd)	Reference	
		2020	2021	2022	2023	2024	2025	Inflationary increases and changes to other revenue rates 2021-2025 - Changes in load forecast 2025 - Transformer Ownership Credit discontinued Annual changes in load forecast Impact of revenue requirement item in	(Cont'd)	
Less Revenue Offsets	\$	\$10,268	106 \$203,909 \$220,926 \$232,378 \$241,254 \$44,596 \$1,056 \$1,056 \$1,056 \$1,056 \$1,056 \$1,056 \$1,056 \$203,945 \$221,982 \$233,434 \$242,312 \$248,483 \$2,803 \$17,017 \$11,452 \$8,876 \$6,342 \$237 \$204,965 \$221,982 \$233,434 \$242,312 \$248,483 \$248,483 \$2,803 \$17,017 \$11,452 \$8,878 \$6,170 \$1,056	,	3-2-1					
	+/-	\$ \$201,106 \$203,909 +/- \$2,803	\$36	\$654	\$484	\$305				
Base Revenue Requirement	\$	\$201,106	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596		6-1-1(A) 8-1-1	
·	+/-	-/- \$2,803 \$17,017 \$11,452 \$8		\$8,876	\$6,342					
Transformer Ownership Credit	\$	\$1,131	\$1,056	\$1,056	\$1,056	\$1,059	\$886	2025 - Transformer Ownership Credit	3-1-1 8-1-1	
Cimerenii p Credii	+/-		\$(75)	\$(0)	\$0	\$2	\$(172)	discontinued		
Revenue Requirement from	\$	\$202,237	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483			
Rates	+/-		\$2,803	\$17,017	\$11,452	\$8,878	\$6,170			
Forecasted Load at 2015/2020 Rates	\$	\$160,464	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468	Impact of revenue requirement item in	3-1-1 9-1-3	
2015/2020 Rates +/-			\$27,441	\$928	\$882	\$987	\$765	Regulatory Accounts		
Cumulative Revenue Deficiency (over 2020)	\$		(\$17,060)	(\$33,149)	(\$43,719)	(\$51,609)	(\$57,014)			
(0,01,2020)	+/-			\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)			

² Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

³ Accounts.



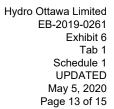
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Table 5 - AS REVISED - 2021-2025 Revenue Deficiency Amounts & Drivers (\$'000s)4

		Bridge⁵			Test			Drivers	Reference
		2020	2021	2022	2023	2024	2025	Dilvers	Reference
Return on	\$	\$66,298	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624	Allitual illuleases ill flet likeu assets allu	2-1-1
Rate Base	+/-		\$1,191	\$6,099	\$3,853	\$2,419	\$4,763	working capital	
Distribution Expenses	\$	\$91,990	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714	Annual inflationary increases and increases in	1-1-8 (Table 6)
(not including amortization)	+/-		\$1,933	\$2,357	\$2,417	\$2,477	\$2,539		4-1-3 4-1-4
	\$	\$50,723	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027		2-2-1 2-2-1(E)-(J)
Amortization	+/-		\$1,727	\$4,410	\$2,282	\$1,570	\$3,315	Annual increases in sustainment additions	2-4-3(E) 6-6-1 (Table 3)
Payment in Lieu of	\$	\$2,362	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689	2021 & 2025 - Decrease due to increase in accelerated CCA, large amount of fixed assets placed into service	4-4-1
Taxes	+/-		\$(1,338)	\$4,187	\$3,555	\$2,894	\$(3,970)	2022-2024 - Increases due to higher accounting depreciation and lower accelerated CCA	4-4-1(D)-(H)
Service Revenue	\$	\$211,374	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053		6-1-1(A)-(E)
Requirement	+/-		\$3,512	\$17,053	\$12,106	\$9,360	\$6,648		
Less Revenue Offsets	\$	\$10,767	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457	Inflationary increases and changes to other revenue rates	UPDATED 3-2-1
Onsets	+/-		\$210	\$36	\$654	\$484	\$305	Teveriue rates	3-2-1

Totals may not sum due to rounding.
 Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

⁴ Accounts.





		Bridge ⁶ (Cont'd)		T	est (Cont'd)			Drivers (Cont'd)	Reference
		2020	2021	2022	2023	2024	2025		(Cont'd)
Base Revenue	\$	\$200,607	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596		UPDATED 6-1-1(A)
Requirement	+/-		\$3,302	\$17,017	\$11,452	1,452 \$8,876 \$6,3			8-1-1
Transformer	\$	\$1,131	\$1,056	\$1,056	\$1,056	\$1,059	\$886	2021-2025 - Changes in load forecast 2025 - Transformer Ownership Credit	3-1-1
Ownership Credit	+/-		\$(75)	\$(0)	\$0	\$2	\$(172)	discontinued	8-1-1
Revenue Requirement from	\$	\$201,738	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483		
Rates	+/-		\$3,227	\$17,017	\$11,452	\$8,878	\$6,170		
Forecasted Load at 2015/2020 Rates	\$	\$160,464	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468	Annual changes in load forecast Impact of revenue requirement item in	3-1-1 9-1-3
2015/2020 Rates	+/-		\$27,441	\$928	\$882	\$987	\$765	Regulatory Accounts	9-1-3
Cumulative Revenue Deficiency	\$		(\$17,060)	(\$33,149)	(\$43,719)	(\$51,609)	(\$57,014)		
(over 2020)	+/-			\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)		

² Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

³ Accounts.



Table 5 – UPDATED FOR 2019 ACTUALS – 2021-2025 Revenue Deficiency Amounts & Drivers (\$'000s)⁷

	Bridge ⁸ Test			Drivers	Reference				
		2020	2021	2022	2023	2024	2025	Drivers	Reference
Return on	\$	\$67,036	\$68,158	\$74,253	\$78,242	\$80,677	\$85,470	Annual increases in net fixed assets and	UPDATED
Rate Base	+/-		\$1,122	\$6,095	\$3,989	\$2,435	\$4,793	working capital	2-1-1
Distribution Expenses	\$	\$91,990	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714	Annual inflationary increases and increases in	UPDATED 1-1-8 (Table 6) UPDATED
(not including amortization)	+/-		\$1,933 \$2,357 \$2,417 \$2,477 \$2,53	\$2,539	compensation	4-1-3 <u>UPDATED</u> 4-1-4			
Amortization	\$	\$50,704	\$52,333	\$56,699		Annual increases in sustainment additions	UPDATED 2-2-1 2-2-1(E)-(J)		
	+/-		\$1,629	\$4,366	\$2,317	\$1,570	\$3,315		2-4-3(E) 6-6-1 (Table 3)
Payment in Lieu	\$	\$1,394	\$2,224	\$3,881	\$8,604	\$11,533	\$7,590	2021 & 2025 (as originally submitted) - Decrease due to increase in accelerated CCA, large amount of fixed assets placed into service 2021 (updated for 2019 actuals) - Increase due to higher income and depreciation add back driven by large amount of fixed assets placed into	<u>UPDATED</u>
of Taxes	+/-		\$830	\$1,656	\$4,723	\$2,929	\$(3,943)	service 2022-2024 - Increases due to higher accounting	4-4-1 4-4-1(D)-(H)

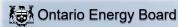
 ⁷ Totals may not sum due to rounding.
 ⁸ Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

⁴ Accounts.



		Bridge ⁹ (Cont'd)		7	est (Cont'd)		Drivers (Cont'd)	Reference
		2020	2021	2022	2023	2024	2025		(Cont'd)
Service Revenue	\$	\$211,124	\$216,638	\$231,113	\$244,558	\$253,969	\$260,674		UPDATED
Requirement	+/-		\$5,514	\$14,475	\$13,446	\$9,411	\$6,705		6-1-1(A)-(E)
Less Revenue	\$	\$10,773	\$11,013	\$10,971	\$11,667	\$12,151	\$12,457	Inflationary increases and changes to other	UPDATED
Offsets	+/-		\$240	\$(43)	\$696	\$484	\$305	revenue rates	3-2-1
Base Revenue	\$	\$200,351	\$205,624	\$220,142	\$232,891	\$241,817	\$248,217		UPDATED 6-1-1(A)
Requirement	+/-		\$5,273	\$14,517	\$12,749	\$8,926	\$6,400		UPDATED 8-1-1
Transformer	\$	\$1,131	\$1,056	\$1,056	\$1,056	\$1,059	\$886	2021-2025 - Changes in load forecast 2025 - Transformer Ownership Credit	UPDATED 3-1-1
Ownership Credit	+/-		\$(75)	\$(0)	\$0	\$2	\$(172)	·	UPDATED 8-1-1
Revenue Requirement from	\$	\$201,482	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104		
Rates	+/-		\$5,198	\$14,517	\$12,750	\$8,929	\$6,228		
Forecasted Load	\$	\$160,464	\$187,888	\$188,816	\$189,699	\$190,686	\$191,453	Annual changes in load forecast	UPDATED 3-1-1
at 2015/2020 Rates	+/-		\$27,424	\$928	\$883	\$987	\$767	Impact of revenue requirement item in Regulatory Accounts added to rate base	UPDATED 9-1-3
Cumulative Revenue	\$		\$(18,792)	\$(32,381)	\$(44,248)	\$(52,190)	\$(57,651)		
Revenue	+/-			\$(13,589)	\$(11,867)	\$(7,942)	\$(5,461)		

 ⁹ Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory
 Accounts.





Version 9.00

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address Regulatory Affairs@HydroOttawa.com

Test Year 2021

Bridge Year

Last Rebasing Year 2016

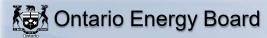
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 2 of 16



Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev_Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate_Base 11. Cost Allocation

<u>5. Utility Income</u> <u>12. Residential Rate Design</u>

6. Taxes PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

- (1) Pale green cells represent inputs
- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.

Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 3 of 16

Data Input (1)

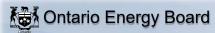
	_	Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments		Per Board Decision	
1	Rate Base										
•	Gross Fixed Assets (average) Accumulated Depreciation (average)	\$1,444,394,960 (\$309,700,143)	(5)	\$4,004,564 \$7,166,338		\$ 1,448,399,524 (\$302,533,805)				61,448,399,524 (\$302,533,805)	
	Allowance for Working Capital: Controllable Expenses Cost of Power	\$93,922,657		\$ - \$12,071,147		93,922,657 \$1,037,683,909				\$93,922,657	
	Working Capital Rate (%)	\$1,025,612,762 7.50%	(9)	\$12,071,147	•	7.50%	(9)		3	31,037,683,909	(9)
2	Utility Income										
	Operating Revenues:	********	(10)			*****					
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$186,849,349 \$203,908,920	(10)	(\$17,019) \$1,715,319		\$186,832,330 \$205,624,239					
	Specific Service Charges	\$5,118,168		\$0		\$5,118,168					
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000					
	Other Distribution Revenue	\$2,789,981		\$0		\$2,789,981					
	Other Income and Deductions	\$2,069,167		\$36,061		\$2,105,228					
	Total Revenue Offsets	\$10,977,316	(7)	\$36,061		\$11,013,377					
	Operating Expenses:										
	OM+A Expenses	\$90,790,555			5	90,790,555				\$90,790,555	
	Depreciation/Amortization	\$52,450,059		(\$117,336)	5	52,332,723				\$52,332,723	
	Property taxes	\$3,132,102			5	\$ 3,132,102				\$3,132,102	
	Other expenses										
3	Taxes/PILs										
	Taxable Income:										
		(\$40,125,534)	(3)	\$0		(\$40,125,534)					
	Adjustments required to arrive at taxable income Utility Income Taxes and Rates:										
	Income taxes (not grossed up)	\$752,736		\$881,952		\$1,634,688					
	Income taxes (grossed up)	\$1,024,131				\$2,224,065					
	Federal tax (%)	15.00%		\$0		15.00%					
	Provincial tax (%) Income Tax Credits	11.50% (\$85,000)		\$0 \$0		11.50% (\$85,000)					
		(\$65,000)		Φ0		(\$65,000)					
4	Capitalization/Cost of Capital Capital Structure:										
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%					
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)				(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%					
	Prefered Shares Capitalization Ratio (%)			**							
	•	100.0%				100.0%					
	Cost of Capital										
	Long-term debt Cost Rate (%)	3.35%		\$0		3.35%					
	Short-term debt Cost Rate (%)	2.75%		\$0		2.75%					
	Common Equity Cost Rate (%)	8.88%		\$0		8.88%					
	Prefered Shares Cost Rate (%)										

Notes:

General

Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- 7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- 4.0% unless an Applicant has proposed or been approved for another amount.
- The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.
- (10) Revenue at 2020 rates minus 2021 Transformer Ownership Allowance



Rate Base and Working Capital

Rate Base

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2)	\$1,444,394,960	\$4,004,564	\$1,448,399,524	\$ -	\$1,448,399,524
2	Accumulated Depreciation (average) (2)	(\$309,700,143)	\$7,166,338	(\$302,533,805)	\$ -	(\$302,533,805)
3	Net Fixed Assets (average) (2)	\$1,134,694,817	\$11,170,902	\$1,145,865,719	\$ -	\$1,145,865,719
4	Allowance for Working Capital (1)	\$83,965,156	\$905,336	\$84,870,492	(\$84,870,492)	\$ -
5	Total Rate Base	\$1,218,659,973	\$12,076,238	\$1,230,736,211	(\$84,870,492)	\$1,145,865,719

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$93,922,657	\$ -	\$93,922,657		\$ -	\$93,922,657
Cost of Power		\$1,025,612,762	\$12,071,147	\$1,037,683,909		\$ -	\$1,037,683,909
Working Capital Base		\$1,119,535,420	\$12,071,147	\$1,131,606,567		\$ -	\$1,131,606,567
Working Capital Rate %	(1)	7.50%	0.00%	7.50%		-7.50%	0.00%
Working Capital Allowance		\$83,965,156	\$905,336	\$84,870,492	(\$8-	4,870,492)	\$ -

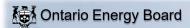
Notes

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Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

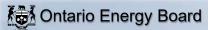
Average of opening and closing balances for the year.



Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$203,908,920	\$1,715,319	\$205,624,239	\$ -	\$205,624,239
2		\$10,977,316	\$36,061	\$11,013,377	\$ -	\$11,013,377
3	Total Operating Revenues	\$214,886,236	\$1,751,380	\$216,637,616	\$ -	\$216,637,616
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$90,790,555 \$52,450,059 \$3,132,102 \$ - \$ -	\$- (\$117,336) \$- \$- \$-	\$90,790,555 \$52,332,723 \$3,132,102 \$-	\$ - \$ - \$ - \$ - \$ -	\$90,790,555 \$52,332,723 \$3,132,102 \$ -
9	Subtotal (lines 4 to 8)	\$146,372,716	(\$117,336)	\$146,255,380	\$ -	\$146,255,380
10	Deemed Interest Expense	\$24,202,587	\$239,834	\$24,442,421	(\$1,685,528)	\$22,756,893
11	Total Expenses (lines 9 to 10)	\$170,575,303	\$122,498	\$170,697,801	(\$1,685,528)	\$169,012,273
12	Utility income before income taxes	\$44,310,933	\$1,628,882	\$45,939,815	\$1,685,528	\$47,625,343
13	Income taxes (grossed-up)	\$1,024,131	\$1,199,935	\$2,224,065	<u> </u>	\$2,224,065
14	Utility net income	\$43,286,803	\$428,947	\$43,715,750	\$1,685,528	\$45,401,278
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions Total Revenue Offsets	\$5,118,168 \$1,000,000 \$2,789,981 \$2,069,167 \$10,977,316	\$ - \$ - \$ - \$ 36,061	\$5,118,168 \$1,000,000 \$2,789,981 \$2,105,228 \$11,013,377	\$-	\$5,118,168 \$1,000,000 \$2,789,981 \$2,105,228 \$11,013,377
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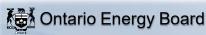


Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$43,286,802	\$43,715,750	\$40,701,150
2	Adjustments required to arrive at taxable utility income	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)
3	Taxable income	\$3,161,268	\$3,590,216	\$575,616
	Calculation of Utility income Taxes			
4	Income taxes	\$752,736	\$1,634,688	\$1,634,688
6	Total taxes	\$752,736	\$1,634,688	\$1,634,688
7	Gross-up of Income Taxes	\$271,395	\$589,377	\$589,377
8	Grossed-up Income Taxes	\$1,024,131	\$2,224,065	\$2,224,065
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$1,024,131	\$2,224,065	\$2,224,065
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

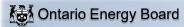


Tab 1
Schedule 1
Attachment A
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May 5, 2020
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Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capital	ization Ratio	Cost Rate	Return
		Initial	Application		
	Debt	(%)	(\$)	(%)	(\$)
1 2 3	Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$682,449,585 \$48,746,399 \$731,195,984	3.35% 2.75% 3.31%	\$22,862,061 \$1,340,526 \$24,202,587
J	Equity	00.0070	ψ/01,130,304	3.3170	Ψ24,202,301
4 5	Common Equity Preferred Shares	40.00% 0.00%	\$487,463,989 \$ -	8.88% 0.00%	\$43,286,802 \$ -
6	Total Equity	40.00%	\$487,463,989	8.88%	\$43,286,802
7	Total	100.00%	\$1,218,659,973	5.54%	\$67,489,389
		Applica	ation Update		
	Debt	(%)	(\$)	(%)	(\$)
1 2	Long-term Debt Short-term Debt	56.00% 4.00%	\$689,212,278 \$49,229,448	3.35% 2.75%	\$23,088,611 \$1,353,810
3	Total Debt	60.00%	\$738,441,727	3.31%	\$24,442,421
4 5	Equity Common Equity Preferred Shares	40.00% 0.00%	\$492,294,485 \$ -	8.88% 0.00%	\$43,715,750 \$ -
6	Total Equity	40.00%	\$492,294,485	8.88%	\$43,715,750
7	Total	100.00%	\$1,230,736,211	5.54%	\$68,158,171
		Per Bo	ard Decision		
	Debt	(%)	(\$)	(%)	(\$)
8 9 10	Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$641,684,803 \$45,834,629 \$687,519,431	3.35% 2.75% 3.31%	\$21,496,441 \$1,260,452 \$22,756,893
11 12 13	Equity Common Equity Preferred Shares Total Equity	40.00% 0.00% 40.00%	\$458,346,288 \$ - \$458,346,288	8.88% 0.00% 8.88%	\$40,701,150 \$ - \$40,701,150
14	Total	100.00%	\$1,145,865,719	5.54%	\$63,458,044
<u>Notes</u>					

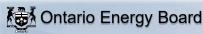


Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application Update		Per Board D	oard Decision	
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net	\$186,849,349 \$10,977,316	\$21,701,279 \$182,207,641 \$10,977,316	\$186,832,330 \$11,013,377	\$22,425,639 \$183,198,601 \$11,013,377	\$186,832,330 \$11,013,377	\$16,030,907 \$189,593,333 \$11,013,377	
4	Total Revenue	\$197,826,665	\$214,886,236	\$197,845,707	\$216,637,616	\$197,845,707	\$216,637,616	
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$146,372,716 \$24,202,587 \$170,575,303	\$146,372,716 \$24,202,587 \$170,575,303	\$146,255,380 \$24,442,421 \$170,697,801	\$146,255,380 \$24,442,421 \$170,697,801	\$146,255,380 \$22,756,893 \$169,012,273	\$146,255,380 \$22,756,893 \$169,012,273	
9	Utility Income Before Income Taxes	\$27,251,362	\$44,310,933	\$27,147,906	\$45,939,815	\$28,833,434	\$47,625,343	
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	
11	Taxable Income	(\$12,874,172)	\$4,185,399	(\$12,977,628)	\$5,814,281	(\$11,292,100)	\$7,499,809	
12 13	Income Tax Rate	26.50% \$ -	26.50% \$1,109,131	26.50% \$ -	26.50% \$1,540,785	26.50% \$ -	26.50% \$1,987,449	
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$27,336,362	(\$85,000) \$43,286,803	(\$85,000) \$27,232,906	(\$85,000) \$43,715,750	(\$85,000) \$28,918,434	(\$85,000) \$45,401,278	
16	Utility Rate Base	\$1,218,659,973	\$1,218,659,973	\$1,230,736,211	\$1,230,736,211	\$1,145,865,719	\$1,145,865,719	
17	Deemed Equity Portion of Rate Base	\$487,463,989	\$487,463,989	\$492,294,485	\$492,294,485	\$458,346,288	\$458,346,288	
18	Income/(Equity Portion of Rate Base)	5.61%	8.88%	5.53%	8.88%	6.31%	9.91%	
19	Target Return - Equity on Rate Base	8.88%	8.88%	8.88%	8.88%	8.88%	8.88%	
20	Deficiency/Sufficiency in Return on Equity	-3.27%	0.00%	-3.35%	0.00%	-2.57%	1.03%	
21	Indicated Rate of Return	4.23%	5.54%	4.20%	5.54%	4.51%	5.95%	
22	Requested Rate of Return on Rate Base	5.54%	5.54%	5.54%	5.54%	5.54%	5.54%	
23	Deficiency/Sufficiency in Rate of Return	-1.31%	0.00%	-1.34%	0.00%	-1.03%	0.41%	
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$43,286,802 \$15,950,440 \$21,701,279 (1)	\$43,286,802 \$1	\$43,715,750 \$16,482,844 \$22,425,639 (1)	\$43,715,750 (\$0)	\$40,701,150 \$11,782,717 \$16,030,907 (1)	\$40,701,150 \$4,700,128	

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Tab 1 Schedule 1 Attachment A **UPDATED** Page 9 of 16

Revenue Requirement Workform May 5, 2020 Page 9 of 16 (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application	_	Application Update		Per Board Decision	
1	OM&A Expenses	\$90,790,555		\$90,790,555		\$90,790,555	
2	Amortization/Depreciation	\$52,450,059		\$52,332,723		\$52,332,723	
3	Property Taxes	\$3,132,102		\$3,132,102		\$3,132,102	
5	Income Taxes (Grossed up)	\$1,024,131		\$2,224,065		\$2,224,065	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$24,202,587		\$24,442,421		\$22,756,893	
	Return on Deemed Equity	\$43,286,802	_	\$43,715,750		\$40,701,150	
8	Service Revenue Requirement						
	(before Revenues)	\$214,886,236	_	\$216,637,617		\$211,937,489	
9	Revenue Offsets	\$10,977,316	_	\$11,013,377		\$-	
10	Base Revenue Requirement	\$203,908,920	_	\$205,624,240		\$211,937,489	
	(excluding Tranformer Owership Allowance credit adjustment)						
11	Distribution revenue	\$203,908,920		\$205.624.239		\$205,624,239	
12	Other revenue	\$10,977,316		\$11,013,377		\$11,013,377	
		Ţ,o,		+ · · · · · · · · · · · · · · · · · · ·		<u> </u>	
13	Total revenue	\$214,886,236	_	\$216,637,616		\$216,637,616	
14	Difference (Total Revenue Less Distribution Revenue Requirement	•	(1)	(0.0)	(1)	44 7 00 400	(1)
	before Revenues)	\$1	` =	(\$0)	(-,	\$4,700,128	` '

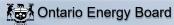
Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application	Application Update	$\Delta\%^{~(2)}$	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$214,886,236	\$216,637,617	\$0	\$211,937,489	(\$1)
Deficiency/(Sufficiency)	\$21,701,279	\$22,425,639	\$0	\$16,030,907	(\$1)
Base Revenue Requirement (to be	****	4005.004.040		2011 007 100	
recovered from Distribution Rates) Revenue Deficiency/(Sufficiency) Associated with Base Revenue	\$203,908,920	\$205,624,240	\$0	\$211,937,489	(\$1)
Requirement	\$17,059,571	\$18,791,909	\$0	\$ -	(\$1

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application



Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in Appendix 2-I should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in Appendix 2-IB and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

		_		
Customer Class		lni	tial Application	
Input the name of each customer class.	Customer / Connections		kWh	kW/kVA (1)
	Test Year average or mid-year		Annual	Annual
Residential	316,346		2,253,081,000	
GS < 50 kW	25,391		700,163,000	
GS > 50 to 1,499 kW	3,120		2,819,476,000	6,816,104
GS > 1,500 to 4,999 kW	68		682,977,000	1,518,349
Large Use	11		574,292,000	1,052,899
Street Lighting	62,806		22,107,000	61,588
Sentinel Lighting	55		47,000	132
Unmetered Scattered Load	3,321		13,602,000	
Standby Power	3			7,440
		_		

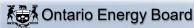
	Application Update	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual
316,346 25,391 3,120 68 11 62,806 55 3,321 3	2,252,937,000 699,871,000 2,817,707,000 682,919,000 574,292,000 22,107,000 47,000 13,602,000	6,815,129 1,517,165 1,052,901 61,590 132 7,440

	Per Board Decision	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual

Total 7,065,745,000 9,456,512 7,063,482,000 9,454,357

9

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class ⁽³⁾ From Sheet 10. Load Forecast		s Allocated from vious Study ⁽¹⁾	%	-	Allocated Class enue Requirement (1) (7A)	%
1 Residential 2 GS < 50 kW 3 GS > 50 to 1,499 kW 4 GS > 1,500 to 4,999 kW 5 Large Use 6 Street Lighting 7 Sentinel Lighting 8 Unmetered Scattered Load 9 Standby Power 10 11 12 13 14 15 16 17 18	***	107,281,788 20,646,221 48,750,762 13,365,246 8,063,832 1,811,439 6,568 547,549 70,655	53.50% 10.30% 24.31% 6.66% 4.02% 0.90% 0.00% 0.27% 0.04%	***	119,486,480 21,637,911 53,847,846 11,354,589 8,754,647 982,528 9,866 550,487 13,261	55.16% 9.99% 24.86% 5.24% 4.04% 0.45% 0.00% 0.25% 0.01%
Total	\$	200,544,060	100.00%	\$	216,637,615	100.00%
			Service Revenue Requirement (from Sheet 9)	\$	216,637,616.62	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rent approved rates	LF X current proved rates X (1+d)	LF X Proposed Rates		Miscellaneous Revenues
	(7B)	(7C)		(7D)	(7E)
Residential	\$ 105,495,064	\$ 116,105,934	\$	116,124,290	\$ 8,081,006
2 GS < 50 kW	\$ 23,383,424	\$ 25,735,368	\$	24,966,258	\$ 985,100
GS > 50 to 1,499 kW	\$ 40,375,423	\$ 44,436,450	\$	44,681,903	\$ 1,394,784
GS > 1,500 to 4,999 kW	\$ 9,786,044	\$ 10,770,340	\$	10,829,246	\$ 272,470
Large Use	\$ 6,161,456	\$ 6,781,186	\$	7,289,429	\$ 191,721
Street Lighting	\$ 1,076,408	\$ 1,184,675	\$	1,126,911	\$ 51,772
Sentinel Lighting	\$ 4,052	\$ 4,460	\$	5,002	\$ 881
Unmetered Scattered Load	\$ 532,015	\$ 585,526	\$	580,904	\$ 35,208
Standby Power	\$ 18,443	\$ 20,298	\$	20,298	\$ 434
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<u> </u>					
Total	\$ 186,832,330	\$ 205,624,238	\$	205,624,240	\$ 11,013,377

⁽⁴⁾ In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.

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⁽⁵⁾ Columns 7C and 7D - Column Total should equal the Base Revenue Requirement for each.

⁽⁶⁾ Column 7C - The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.

⁽⁷⁾ Column 7E - If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
1 Residential	104.29%	103.93%	103.95%	85 - 115
2 GS < 50 kW	118.23%	123.49%	119.93%	80 - 120
3 GS > 50 to 1,499 kW	86.34%	85.11%	85.57%	80 - 120
4 GS > 1,500 to 4,999 kW	98.24%	97.25%	97.77%	80 - 120
5 Large Use	85.36%	79.65%	85.45%	85 - 115
6 Street Lighting	80.00%	125.84%	119.96%	80 - 120
7 Sentinel Lighting	76.00%	54.14%	59.63%	80 - 120
B Unmetered Scattered Load	118.72%	112.76%	111.92%	80 - 120
Standby Power	21.03%	156.34%	156.34%	80 - 120
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1				
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8				
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⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

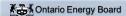
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	ed Revenue-to-Cost Ratio		Policy Range
	Test Year	Price Cap IR F	Period	
	2021	2022	2023	
1 Residential	103.95%	103.95%	103.95%	85 - 115
2 GS < 50 kW	119.93%	119.93%	119.93%	80 - 120
3 GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120
4 GS > 1,500 to 4,999 kW	97.77%	97.77%	97.77%	80 - 120
5 Large Use	85.45%	85.45%	85.45%	85 - 115
Street Lighting	119.96%	119.96%	119.96%	80 - 120
7 Sentinel Lighting	59.63%	59.63%	59.63%	80 - 120
Unmetered Scattered Load	111.92%	111.92%	111.92%	80 - 120
Standby Power	156.34%	156.34%	156.34%	80 - 120
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e				

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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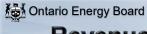
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Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:			Application Update		Cla	ss Allocated Rever	ues					Dist	ribution Rates			Revenue Reconciliati	on
	Customer and Lo	oad Forecast				11. Cost Allocation esidential Rate Des		Percentage to	iable Splits ² be entered as a ween 0 and 1								
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance 1 (\$)	Monthly Ser	No. of decimals	Volu	metric Rate No. of decima	s MSC Revenues	Volumetric revenues	Revenues les Transformer Ownership Allowance
Residential GS + 50 kW GS + 100 to 4,99 kW GS + 100 to 4,99 kW Large Use Streat Lighting Unmellated Scattered Load Stantuty Power	KWh KWh KW KW KW KW KW KW KW KW	316,346 25,391 3,120 68 11 62,806 55 3,321 - - - - - - -	2,252,937,000 699,871,000 2,817,707,000 682,919,000 574,292,000 22,107,000 47,000 13,602,000	6,815,129 1,517,165 1,052,901 61,590 132 - 7,440 - - - - - - - -	\$ 116,124,290 \$ 24,996,259 \$ 44,681,593 \$ 10,829,246 \$ 7,289,429 \$ 1,126,911 \$ 5,502 \$ 590,904 \$ 20,298	\$ 116,124,290 \$ 6,279,014 \$ 7,488,017 \$ 3,422,248 \$ 2,010,534 \$ 715,988 \$ 2,581 \$ 223,183 \$ 5,750	\$ 18,687.24 \$ 37,193,886 \$ 7,406,999 \$ 5,278,895 \$ 410,922 \$ 2,421 \$ 357,721 \$ 14,547	100.00% 25.15% 10.78% 31.00% 27.289% 61.00% 38.42% 28.33%	0.00% 74.85% 83.24% 68.40% 72.42% 36.46% 61.58% 71.67%	\$ 343,146 \$ 396,994 \$ 315,695	\$90.55 \$20.6' \$200.00 \$4,193.2' \$15,221.3; \$0.92 \$3.9' \$5.6(\$159.7')	3 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$0.0267 \$5.5079 \$5.1438 \$5.3135 \$6.6719 \$18.3405 \$0.0263	JAWIh JAWIH JAWI JAWI JAWI JAWI JAWI JAWI JAWI JAWI	######################################	\$18,686,555,7000 \$37,537,049,0191 \$7,803,993,3270 \$419,2400,9460 \$419,2400,9460 \$357,732,600 \$357,732,600 \$550,9450	######################################
							1	Total Transformer Ow	nership Allowance	\$ 1,055,834					Total Distribution R		*********
s:													Rates recover re	evenue requirement	Base Revenue Req	uirement	#########
Transformer Ownership Allowance is	entered as a positive	mount and only fo	r those classes to wh	sich it applies											Difference % Difference		\$ 0.00

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories, undertakings, etc.)

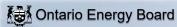
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

Summary of Proposed Changes

			Cost of	Capital	Rate Base	e and Capital Exp	enditures	Ope	erating Expense	es		Revenue R	equirement	
Re	eference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)		Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
		Original Application	\$ 67,489,389	5.54%	\$1,218,659,973	\$1,119,535,420	\$ 83,965,156	\$ 52,450,059	\$ 1,024,131	\$ 90,790,555	\$ 214,886,236	\$ 10,977,316	\$ 203,908,920	\$ 21,701,279
		Updated Application for 2019 Actuals Change	\$ 68,158,171 \$ 668,782	5.54% 0.00%		\$1,131,606,567 \$ 12,071,147			\$ 2,224,065 \$ 1,199,935		\$ 216,637,617 \$ 1,751,381			

⁽²⁾ Short description of change, issue, etc.





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2022

Bridge Year

Last Rebasing Year 2016

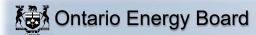
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Hydro Ottawa Limited
EB-2019-0261
Exhibit 6
Tab 1
Schedule 1
Attachment B
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Hydro Ottawa Limited
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Tab 1
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Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

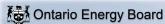
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pale green cells re	present inputs
-------------------------	----------------

- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



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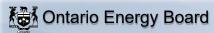
Data Input (1)

		Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	_	Per Board Decision	_
1	Rate Base										
	Gross Fixed Assets (average) Accumulated Depreciation (average)	\$1,576,350,307 (\$361,938,366)	(5)	\$3,579,542 \$7,305,832		\$1,579,929,849 (\$354,632,534)				\$1,579,929,849 (\$354,632,534)	
	Allowance for Working Capital: Controllable Expenses Cost of Power	\$96,280,116 \$1,097,187,257		\$12,011,305		\$ 96,280,116 \$1,109,198,562				\$96,280,116 \$1,109,198,562	
	Working Capital Rate (%)	7.50%	(9)	\$0		7.50%	(9)				(9)
2	Utility Income Operating Revenues:										
	Distribution Revenue at Current Rates	\$187,777,386		(\$16,664)		\$187,760,722					
	Distribution Revenue at Proposed Rates Other Revenue:	\$220,926,272		(\$784,546)		\$220,141,726					
	Specific Service Charges	\$5,394,162		(\$0)		\$5,394,162					
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000					
	Other Distribution Revenue Other Income and Deductions	\$2,885,203 \$1,733,539		(\$0) (\$42,119)		\$2,885,203 \$1,691,420					
	Other income and Deductions	\$1,733,339		(\$42,119)		\$1,691,420					
	Total Revenue Offsets	\$11,012,904	(7)	(\$42,119)		\$10,970,785					
	Operating Expenses:										
	OM+A Expenses	\$93,069,398				\$ 93,069,398				\$93,069,398	
	Depreciation/Amortization	\$56,860,206		(\$161,653)		\$ 56,698,553				\$56,698,553	
	Property taxes	\$3,210,718				\$ 3,210,718				\$3,210,718	
	Other expenses										
3	Taxes/PILs										
	Taxable Income:	(**** * 10 100)	(0)	**		(**** * * * * * * * * * * * * * * * * *					
	Adjustments required to arrive at taxable income	(\$32,846,126)	(3)	\$0		(\$32,846,126)					
	Utility Income Taxes and Rates:										
	Income taxes (not grossed up)	\$3,829,873		(\$977,682)		\$2,852,191					
	Income taxes (grossed up)	\$5,210,712				\$3,880,532					
	Federal tax (%)	15.00%		\$0		15.00%					
	Provincial tax (%)	11.50%		\$0		11.50%					
	Income Tax Credits	(\$85,000)		\$0		(\$85,000)					
4	Capitalization/Cost of Capital Capital Structure:										
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%					
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)				(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%					
	Prefered Shares Capitalization Ratio (%)	100.0%			-	100.0%					
	Cost of Capital										
	Long-term debt Cost Rate (%)	3.36%		\$0		3.36%					
	Short-term debt Cost Rate (%) Common Equity Cost Rate (%)	2.75%		\$0		2.75%					
	Prefered Shares Cost Rate (%)	9.13%		\$0		9.13%					

Notes:

in Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- Net of addbacks and deductions to arrive at taxable income.
- Average of Gross Fixed Assets at beginning and end of the Test Year
- (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- (7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- 4.0% unless an Applicant has proposed or been approved for another amount.
- (9) The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

Rate Base

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2)	\$1,576,350,307	\$3,579,542	\$1,579,929,849	\$ -	\$1,579,929,849
2	Accumulated Depreciation (average) (2)	(\$361,938,366)	\$7,305,832	(\$354,632,534)	\$ -	(\$354,632,534)
3	Net Fixed Assets (average) (2)	\$1,214,411,941	\$10,885,374	\$1,225,297,315	\$ -	\$1,225,297,315
4	Allowance for Working Capital (1)	\$89,510,053	\$900,848	\$90,410,901	(\$90,410,901)	\$ -
5	Total Rate Base	\$1,303,921,994	\$11,786,222	\$1,315,708,216	(\$90,410,901)	\$1,225,297,315

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$96,280,116	\$ -	\$96,280,116	\$ -	\$96,280,116
Cost of Power		\$1,097,187,257	\$12,011,305	\$1,109,198,562	\$ -	\$1,109,198,562
Working Capital Base	<u></u>	\$1,193,467,373	\$12,011,305	\$1,205,478,677	\$ -	\$1,205,478,677
Working Capital Rate %	(1)	7.50%	0.00%	7.50%	-7.50%	0.00%
Working Capital Allowance		\$89,510,053	\$900,848	\$90,410,901	(\$90,410,901)	\$

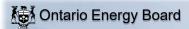
<u>Notes</u>

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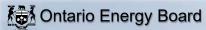
Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.



Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at	\$220,926,272	(\$784,546)	\$220,141,726	\$ -	\$220,141,726
	Proposed Rates)					
2	Other Revenue (1)	\$11,012,904	(\$42,119)	\$10,970,785	\$ -	\$10,970,785
3	Total Operating Revenues	\$231,939,176	(\$826,666)	\$231,112,510	\$ -	\$231,112,510
	Operating Expenses:					
4	OM+A Expenses	\$93,069,398	\$ -	\$93,069,398	\$ -	\$93,069,398
5 6	Depreciation/Amortization Property taxes	\$56,860,206	(\$161,653)	\$56,698,553	\$ - \$ -	\$56,698,553
7	Capital taxes	\$3,210,718 \$ -	\$ - \$ -	\$3,210,718 \$ -	\$ - \$ -	\$3,210,718 \$ -
8	Other expense	\$ -	\$ -	Ψ-	\$ -	ψ-
9	Subtotal (lines 4 to 8)	\$153,140,322	(\$161,653)	\$152,978,669	\$ -	\$152,978,669
10	Deemed Interest Expense	\$25,968,910	\$234,734	\$26,203,645	(\$1,800,624)	\$24,403,021
11	Total Expenses (lines 9 to 10)	\$179,109,232	\$73,082	\$179,182,314	(\$1,800,624)	\$177,381,691
12	Utility income before income taxes	\$52,829,944	(\$899,748)	\$51,930,196	\$1,800,624	\$53,730,820
40			-			
13	Income taxes (grossed-up)	\$5,210,712	(\$1,330,180)	\$3,880,532	<u> \$ -</u>	\$3,880,532
14	Utility net income	\$47,619,232	\$430,432	\$48,049,664	\$1,800,624	\$49,850,288
<u>Notes</u>	Other Revenues / Revenues	ue Offsets				
(1)	Specific Service Charges	\$5,394,162	(\$0)	\$5,394,162		\$5,394,162
	Late Payment Charges	\$1,000,000	\$ -	\$1,000,000		\$1,000,000
	Other Distribution Revenue	\$2,885,203	(\$0)	\$2,885,203		\$2,885,203
	Other Income and Deductions	\$1,733,539	(\$42,119)	\$1,691,420		\$1,691,420
	Total Revenue Offsets	\$11,012,904	(\$42,119)	\$10,970,785	<u> </u>	\$10,970,785

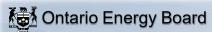


Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$47,619,231	\$48,049,664	\$44,747,858
2	Adjustments required to arrive at taxable utility income	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)
3	Taxable income	\$14,773,105	\$15,203,538	\$11,901,732
	Calculation of Utility income Taxes			
4	Income taxes	\$3,829,873	\$2,852,191	\$2,852,191
6	Total taxes	\$3,829,873	\$2,852,191	\$2,852,191
7	Gross-up of Income Taxes	\$1,380,839	\$1,028,341	\$1,028,341
8	Grossed-up Income Taxes	\$5,210,712	\$3,880,532	\$3,880,532
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$5,210,712	\$3,880,532	\$3,880,532
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

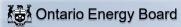
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Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capita	lization Ratio	Cost Rate	Return
		Initia	l Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$730,196,317	3.36%	\$24,534,596
2	Short-term Debt	4.00%	\$52,156,880	2.75%	\$1,434,314
3	Total Debt	60.00%	\$782,353,196	3.32%	\$25,968,910
_	Equity				
4	Common Equity	40.00%	\$521,568,798	9.13%	\$47,619,231
5 6	Preferred Shares	0.00%	\$ - \$521,568,798	0.00%	\$ - \$47,619,231
6	Total Equity	40.00%	\$521,568,798	9.13%	\$47,619,231
7	Total	100.00%	\$1,303,921,994	5.64%	\$73,588,142
		Applic	ation Update		
		(%)	(\$)	(%)	(\$)
	Debt	(70)	(Ψ)	(70)	(Ψ)
1	Long-term Debt	56.00%	\$736,796,601	3.36%	\$24,756,366
2	Short-term Debt	4.00%	\$52,628,329	2.75%	\$1,447,279
3	Total Debt	60.00%	\$789,424,930	3.32%	\$26,203,645
	Equity				
4	Common Equity	40.00%	\$526,283,286	9.13%	\$48,049,664
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$526,283,286	9.13%	\$48,049,664
7	Total	100.00%	\$1,315,708,216	5.64%	\$74,253,309
		Per Bo	oard Decision		
		(%)	(\$)	(%)	(\$)
	Debt	(/	(*)	(/	(**)
8	Long-term Debt	56.00%	\$686,166,497	3.36%	\$23,055,194
9	Short-term Debt	4.00%	\$49,011,893	2.75%	\$1,347,827
10	Total Debt	60.00%	\$735,178,389	3.32%	\$24,403,021
	Equity	40.000/	* 400 440 000	0.400/	44.747.050
11	Common Equity	40.00%	\$490,118,926	9.13%	\$44,747,858
12 13	Preferred Shares Total Equity	0.00% 40.00%	<u>\$ -</u> \$490,118,926	9.13%	<u>\$ -</u> \$44,747,858
14	Total	100.00%	\$1,225,297,315	5.64%	\$69,150,879
	Total	100.00%	Ψ1,220,201,010	<u> </u>	ψου, 1ου,υτο
Notes					

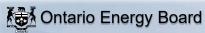


Revenue Deficiency/Sufficiency

		Initial Application		Application	Application Update		Per Board Decision	
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue	\$187,777,386 \$11,012,904	\$37,895,475 \$183,030,797 \$11,012,904	\$187,760,722 \$10,970,785	\$38,660,506 \$181,481,220 \$10,970,785	\$187,760,722 \$10,970,785	\$31,718,425 \$188,423,301 \$10,970,785	
4	Offsets - net Total Revenue	\$198,790,290	\$231,939,176	\$198,731,506	\$231,112,510	\$198,731,506	\$231,112,510	
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$153,140,322 \$25,968,910 \$179,109,232	\$153,140,322 \$25,968,910 \$179,109,232	\$152,978,669 \$26,203,645 \$179,182,314	\$152,978,669 \$26,203,645 \$179,182,314	\$152,978,669 \$24,403,021 \$177,381,691	\$152,978,669 \$24,403,021 \$177,381,691	
9	Utility Income Before Income Taxes	\$19,681,057	\$52,829,944	\$19,549,192	\$51,930,196	\$21,349,816	\$53,730,820	
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	
11	Taxable Income	(\$13,165,069)	\$19,983,818	(\$13,296,934)	\$19,084,070	(\$11,496,310)	\$20,884,694	
12 13	Income Tax Rate	26.50% \$ -	26.50% \$5,295,712	26.50% \$ -	26.50% \$5,057,279	26.50% \$ -	26.50% \$5,534,444	
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$19,766,057	(\$85,000) \$47,619,232	(\$85,000) \$19,634,192	(\$85,000) \$48,049,664	(\$85,000) \$21,434,816	(\$85,000) \$49,850,288	
16	Utility Rate Base	\$1,303,921,994	\$1,303,921,994	\$1,315,708,216	\$1,315,708,216	\$1,225,297,315	\$1,225,297,315	
17	Deemed Equity Portion of Rate Base	\$521,568,798	\$521,568,798	\$526,283,286	\$526,283,286	\$490,118,926	\$490,118,926	
18	Income/(Equity Portion of Rate Base)	3.79%	9.13%	3.73%	9.13%	4.37%	10.17%	
19	Target Return - Equity on Rate Base	9.13%	9.13%	9.13%	9.13%	9.13%	9.13%	
20	Deficiency/Sufficiency in Return on Equity	-5.34%	0.00%	-5.40%	0.00%	-4.76%	1.04%	
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	3.51% 5.64%	5.64% 5.64%	3.48% 5.64%	5.64% 5.64%	3.74% 5.64%	6.06% 5.64%	
23	Deficiency/Sufficiency in Rate of Return	-2.14%	0.00%	-2.16%	0.00%	-1.90%	0.42%	
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$47,619,231 \$27,853,174 \$37,895,475 (1)	\$47,619,231 \$1	\$48,049,664 \$28,415,472 \$38,660,506 (1)	\$48,049,664 \$0	\$44,747,858 \$23,313,042 \$31,718,425 (1)	\$44,747,858 \$5,102,430	

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Revenue Requirement

Line No.	Particulars	Application	Application Update	Per Board Decision	
1	OM&A Expenses	\$93,069,398	\$93,069,398	\$93,069,398	
2	Amortization/Depreciation	\$56,860,206	\$56,698,553		
3	Property Taxes	\$3,210,718	\$3,210,718	\$3,210,718	
5	Income Taxes (Grossed up)	\$5,210,712	\$3,880,532	\$3,880,532	
6	Other Expenses	\$ -			
7	Return				
	Deemed Interest Expense	\$25,968,910	\$26,203,645	\$24,403,021	
	Return on Deemed Equity	\$47,619,231	\$48,049,664	\$44,747,858	
8	Service Revenue Requirement				
	(before Revenues)	\$231,939,175	\$231,112,510	\$226,010,081	
9	Revenue Offsets	\$11,012,904	\$10,970,785	\$ -	
10	Base Revenue Requirement	\$220,926,271	\$220,141,725		
	(excluding Tranformer Owership Allowance credit adjustment)				
11	Distribution revenue	\$220.926.272	\$220,141,726	\$220.141.726	
12	Other revenue	\$11,012,904	\$10,970,785		
13	Total revenue	\$231,939,176	\$231,112,510	\$231,112,510	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	\$1	(1) \$0	(1) \$5,102,430 ⁽¹⁾	

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

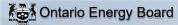
	Application	Application Update	Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$231,939,175	\$231,112,510	(\$0)	\$226,010,081	(\$1)
Deficiency/(Sufficiency)	\$37,895,475	\$38,660,506	\$0	\$31,718,425	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$220,926,271	\$220,141,725	(\$0)	\$226,010,081	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$33,148,886	\$32,381,004	(\$0)	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-Is** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

kW/kVA (1)

Annual

6,818,165

1,517,223

1,050,767

58,863

7,440

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

App	lication	Update	
-----	----------	--------	--

Customer Class		Initial Application
Customer Class		Initial Application
Input the name of each customer class.	Customer / Connections	kWh
	Test Year average or mid-year	Annual
Residential	319,386	2,273,964,000
GS < 50 kW	25,554	699,456,000
GS > 50 to 1,499 kW	3,085	2,825,111,000
GS > 1,500 to 4,999 kW	68	682,362,000
Large Use	11	572,889,000
Street Lighting	63,725	21,225,000
Sentinel Lighting	55	47,000
Unmetered Scattered Load	3,321	13,130,000
Standby Power	3	

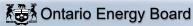
Application Update								
Customer / Connections	kWh	kW/kVA ⁽¹⁾						
Test Year average or mid-year	Annual	Annual						
319,386 25,554 3,085 68 11 63,725 55 3,321	2,273,821,000 699,134,000 2,823,141,000 682,301,000 572,889,000 21,225,000 47,000 13,130,000	6,817,445 1,516,028 1,050,767 58,864 132 7,440						
	7 005 600 000	0.450.676						

	Per Board Decision	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual

Total 7,088,184,000 9,452,590 7,085,688,000 9,450,676 - -

Notes:

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)		Allocated from vious Study (1)	%	-	Allocated Class enue Requirement	%
From Sheet 10. Load Forecast					(7A)	
Residential GS < 50 kW GS > 50 to 1,499 kW GS > 1,500 to 4,999 kW Large Use Street Lighting Sentinel Lighting Unmetered Scattered Load Standby Power	* * * * * * * * * *	107,281,788 20,646,221 48,750,762 13,365,246 8,063,832 1,811,439 6,568 547,549 70,655	53.50% 10.30% 24.31% 6.66% 4.02% 0.90% 0.00% 0.27% 0.04%	***	127,470,109 23,083,674 57,445,753 12,113,259 9,339,599 1,048,177 10,525 587,268 14,147	55.16% 9.99% 24.86% 5.24% 4.04% 0.45% 0.00% 0.25% 0.01%
Total	\$	200,544,060	Service Revenue Requirement (from Sheet 9)	\$ \$	231,112,510	100.00%

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rrent approved rates	LF X current oproved rates X (1+d)	LF X	Proposed Rates	ľ	Miscellaneous Revenues
	(7B)	(7C)		(7D)		(7E)
1 Residential	\$ 117,240,213	\$ 124,454,462	\$	124,445,561	\$	8,049,754
2 GS < 50 kW	\$ 24,986,893	\$ 26,704,038	\$	26,680,774	\$	981,290
GS > 50 to 1,499 kW	\$ 44,953,805	\$ 47,765,964	\$	47,766,023	\$	1,389,390
GS > 1,500 to 4,999 kW	\$ 11,220,392	\$ 11,572,074	\$	11,572,133	\$	271,417
Large Use	\$ 7,593,785	\$ 7,790,032	\$	7,790,002	\$	190,980
Street Lighting	\$ 1,119,200	\$ 1,205,866	\$	1,205,328	\$	51,571
Sentinel Lighting	\$ 5,002	\$ 5,398	\$	5,934	\$	878
Unmetered Scattered Load	\$ 568,490	\$ 622,206	\$	622,437	\$	35,072
Standby Power Comparison of the comparison of t	\$ 20,298	\$ 21,685	\$	21,684	\$	433
Total	\$ 207,708,077	\$ 220,141,726	\$	220,109,877	\$	10,970,785

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.95%	103.94%	85 - 115
GS < 50 kW	118.23%	119.93%	119.83%	80 - 120
GS > 50 to 1,499 kW	86.34%	85.57%	85.57%	80 - 120
GS > 1,500 to 4,999 kW	98.24%	97.77%	97.77%	80 - 120
Large Use	85.36%	85.45%	85.45%	85 - 115
Street Lighting	80.00%	119.96%	119.91%	80 - 120
Sentinel Lighting	76.00%	59.63%	64.72%	80 - 120
Unmetered Scattered Load	118.72%	111.92%	111.96%	80 - 120
Standby Power	21.03%	156.34%	156.34%	80 - 120

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

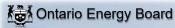
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propose	ed Revenue-to-Cost Ratio		Policy Range	
	Test Year Price Cap IR Period			, ,	
	2021	2022	2023		
Residential	103.94%	103.94%	103.94%	85 - 115	
GS < 50 kW	119.83%	119.83%	119.83%	80 - 120	
GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120	
GS > 1,500 to 4,999 kW	97.77%	97.77%	97.77%	80 - 120	
Large Use	85.45%	85.45%	85.45%	85 - 115	
Street Lighting	119.91%	119.91%	119.91%	80 - 120	
Sentinel Lighting	64.72%	64.72%	64.72%	80 - 120	
Unmetered Scattered Load	111.96%	111.96%	111.96%	80 - 120	
Standby Power	156.34%	156.34%	156.34%	80 - 120	

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Residential Class								
Customers		319,386						
kWh		2,273,821,000						
Proposed Residential Class Specific Revenue	\$	124,445,561.04						
Requirement ¹								
Residential Base Rates on Curr	rent Ta	riff						
Monthly Fixed Charge (\$)	\$	32.47						
Distribution Volumetric Rate (\$/kWh)	\$	-						

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	32.47	319,386	\$ 124,445,561.04	100.00%
Variable	0	2,273,821,000	\$ -	0.00%
TOTAL	-	=	\$ 124,445,561.04	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	_
Transition Years ²	0

	Test Year Revenue @ Current F/V Split		Test Year Base Rates @ Current F/V Split		Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	124,445,561.04	32.47	\$	124,445,561.04
Variable	\$	-	0	\$	-
TOTAL	\$	124,445,561.04	-	\$	124,445,561.04

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$ -	-	

Checks ³							
Change in Fixed Rate							
Difference Between Revenues @ Proposed Rates							
and Class Specific Revenue Requirement							

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\particle{4}/year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

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Revenue Requirement-Workform (RRWF) for 2020 Filers

Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Customer and Load Forecast Customer and Load Forecast Customer / Customer / Charge Determinant Connections Charge Determinant Connections Charge Determinant Connections Charge Determinant Connections Charge Determinant Connections Charge Determinant Connections Charge Determinant Connections Charge Determinant Connections Charge Determinant Connections Charge Connections Charge Connections Connections Charge Connections Connections Charge Connections Connections Charge Connections Charge Connections Charge Connections Charge Connections Charge Connections Charge Connections Charge Connections Charge Connections Charge Connections Charge Cha	Distribution		Dis	stribution Rate	ates			Revenue Reconciliati	on
Customers / Connections									
Residential Residential	of	- N	No. of	Rate	Volumetric R	Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues les Transformer Ownership Allowance
Tatal Transforms Courant & April 20		\$22.03 \$212.51 \$4,325.38 \$15,624.95 \$1.02 \$4.64 \$6.13	3 1 8 5 2 4 3	\$0.000 \$0.02 \$5.90 \$5.56 \$5.72 \$7.22 \$21.75 \$0.02	0285 /kWh 0028 /kW 06669 /kW 7512 /kW 2552 /kW 7549 /kW 0288 /kWh	4	**************************************	\$ 19,925,319,0000 \$ 8,439,576,2732 \$ 40,242,014,3460 \$ 8,439,576,2732 \$ 6,043,171,04 \$ 425,304,1728 \$ 2,871,441,000 \$ 15,541,44100 \$ 5 \$	######################################
							Total Distribution R		##########
Rattes:	Rate			Rates recov	over revenue re	equirement	Base Revenue Requi	uirement	-\$ 31.877.

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

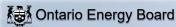
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

Summary of Proposed Changes

Π			Cost of	Cost of Capital Rate Base and Capital Expenditures			Operating Expenses			Revenue Requirement				
F	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)		Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
Ī		Original Application	\$ 73,588,142	5.64%	\$1,303,921,994	\$1,193,467,373	\$ 89,510,053	\$ 56,860,206	\$ 5,210,712	\$ 93,069,398	\$ 231,939,175	\$ 11,012,904	\$ 220,926,271	\$ 37,895,475
1		Updated Application for 2019 Actuals Change	\$ 74,253,309 \$ 665,167	5.64% 0.00%		\$ 1,205,478,677 \$ 12,011,305			\$ 3,880,532 -\$ 1,330,180		\$ 231,112,510 -\$ 826,665			





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2023

Bridge Year

Last Rebasing Year 2016

The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

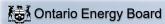
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pale green cells re	present inputs
-------------------------	----------------

- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



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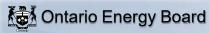
Data Input (1)

		Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	Per Board Decision	
1	Rate Base									
•	Gross Fixed Assets (average) Accumulated Depreciation (average) Allowance for Working Capital:	\$1,672,507,871 (\$417,844,547)	(5)	\$5,535,064 \$7,449,861	\$	1,678,042,935 (\$410,394,686)			\$1,678,042,935 (\$410,394,686)	
	Controllable Expenses Cost of Power Working Capital Rate (%)	\$98,696,747 \$1,167,387,072 7.50%	(9)	\$13,030,230 \$0	\$	98,696,747 1,180,417,302 7.50%	(9)		\$98,696,747 \$1,180,417,302	
2	3 . , ,									
2	Utility Income Operating Revenues:									
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$188,659,471 \$232,378,120		(\$16,311) \$512,941		\$188,643,160 \$232,891,061				
	Specific Service Charges Late Payment Charges Other Distribution Revenue	\$5,678,587 \$1,000,000 \$2,971,480		\$0 \$0 \$0		\$5,678,587 \$1,000,000 \$2,971,480				
	Other Income and Deductions	\$2,017,176		\$0 \$0		\$2,971,460				
	Total Revenue Offsets	\$11,667,243	(7)	\$0		\$11,667,243				
	Operating Expenses:									
	OM+A Expenses	\$95,405,440			\$	95,405,440			\$95,405,440	
	Depreciation/Amortization	\$59,141,744		(\$126,405)	\$				\$59,015,339	
	Property taxes Other expenses	\$3,291,307			\$	3,291,307			\$3,291,307	
_	•									
3	Taxes/PILs Taxable Income:									
	raxable income.	(\$25,626,668)	(3)	\$0		(\$25,626,668)				
	Adjustments required to arrive at taxable income	(\$20,020,000)		Ψū		(\$20,020,000)				
	Utility Income Taxes and Rates:									
	Income taxes (not grossed up)	\$6,442,789		(\$118,927)		\$6,323,862				
	Income taxes (grossed up)	\$8,765,699		**		\$8,603,894				
	Federal tax (%) Provincial tax (%)	15.00% 11.50%		\$0 \$0		15.00% 11.50%				
	Income Tax Credits	(\$85,000)		\$0		(\$85,000)				
	014-11411045-014-1	·								
4	Capitalization/Cost of Capital Capital Structure:									
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%				
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)		(8)	
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%				
	Prefered Shares Capitalization Ratio (%)	100.0%			_	100.0%				
		100.0%				100.0%				
	Cost of Capital									
	Long-term debt Cost Rate (%)	3.40%		\$0		3.40%				
	Short-term debt Cost Rate (%)	2.75%		\$0		2.75%				
	Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	9.31%		\$0		9.31%				

General Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- (2) Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- Net of addbacks and deductions to arrive at taxable income
- Average of Gross Fixed Assets at beginning and end of the Test Year
- Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- 4.0% unless an Applicant has proposed or been approved for another amount.

 The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

R	at	te	В	а	s	e

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2)	\$1,672,507,871	\$5,535,064	\$1,678,042,935	\$ -	\$1,678,042,935
2	Accumulated Depreciation (average) (2)	(\$417,844,547)	\$7,449,861	(\$410,394,686)	\$ -	(\$410,394,686)
3	Net Fixed Assets (average) (2)	\$1,254,663,324	\$12,984,925	\$1,267,648,249	\$ -	\$1,267,648,249
4	Allowance for Working Capital (1)	\$94,956,286	\$977,267	\$95,933,554	(\$95,933,554)	\$-
5	Total Rate Base	\$1,349,619,610	\$13,962,192	\$1,363,581,803	(\$95,933,554)	\$1,267,648,249

(1) Allowance for Working Capital - Derivation

Controllable Expenses Cost of Power Working Capital Base		\$98,696,747 <u>\$1,167,387,072</u> \$1,266,083,819		\$ - \$13,030,230 \$13,030,230	\$98,696,747 <u>\$1,180,417,302</u> \$1,279,114,049	\$ - \$ - \$ -	\$98,696,747 \$1,180,417,302 \$1,279,114,049
Working Capital Rate %	(1)	7.50%		0.00%	7.50%	-7.50%	0.00%
Working Capital Allowance		\$94,956,286	;	\$977,267	\$95,933,554	(\$95,933,554)	\$

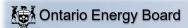
Notes

10

6

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.

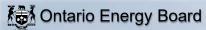


Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision				
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$232,378,120	\$512,941	\$232,891,061	\$ -	\$232,891,061				
2	Other Revenue (1	\$11,667,243	\$ -	\$11,667,243	\$ -	\$11,667,243				
3	Total Operating Revenues	\$244,045,363	\$512,941	\$244,558,304	\$-	\$244,558,304				
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$95,405,440 \$59,141,744 \$3,291,307 \$ - \$ -	\$ - (\$126,405) \$ - \$ - \$ -	\$95,405,440 \$59,015,339 \$3,291,307 \$-	\$ - \$ - \$ - \$ - \$ -	\$95,405,440 \$59,015,339 \$3,291,307 \$-				
9	Subtotal (lines 4 to 8)	\$157,838,491	(\$126,405)	\$157,712,086	\$ -	\$157,712,086				
10	Deemed Interest Expense	\$27,181,339	\$281,199	\$27,462,538	(\$1,932,102)	\$25,530,436				
11	Total Expenses (lines 9 to 10)	\$185,019,830	\$154,794	\$185,174,624	(\$1,932,102)	\$183,242,522				
12	Utility income before income taxes	\$59,025,534	\$358,147	\$59,383,681	\$1,932,102	\$61,315,783				
13	Income taxes (grossed-up)	\$8,765,699	(\$161,805)	\$8,603,894	\$ -	\$8,603,894				
14	Utility net income	\$50,259,834	\$519,953	\$50,779,787	\$1,932,102	\$52,711,889				
Notes Other Revenues / Revenue Offsets										
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$5,678,587 \$1,000,000 \$2,971,480 \$2,017,176	\$ - \$ - \$ - \$ -	\$5,678,587 \$1,000,000 \$2,971,480 \$2,017,176		\$5,678,587 \$1,000,000 \$2,971,480 \$2,017,176				
	Total Revenue Offsets	<u>\$11,667,243</u>	<u> </u>	<u>\$11,667,243</u>	<u> </u>	\$11,667,243				

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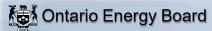


Revenue Requirement Workform Attachment C UPDATED (RRWF) for 2020 Filers

Taxes/PILs

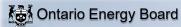
Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$50,259,834	\$50,779,786	\$47,207,221
2	Adjustments required to arrive at taxable utility income	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)
3	Taxable income	\$24,633,166	\$25,153,118	\$21,580,553
	Calculation of Utility income Taxes			
4	Income taxes	\$6,442,789	\$6,323,862	\$6,323,862
6	Total taxes	\$6,442,789	\$6,323,862	\$6,323,862
7	Gross-up of Income Taxes	\$2,322,910	\$2,280,032	\$2,280,032
8	Grossed-up Income Taxes	\$8,765,699	\$8,603,894	\$8,603,894
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$8,765,699	\$8,603,894	\$8,603,894
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes



Capitalization/Cost of Capital

Line No.	Particulars	Capitalization Ratio		Cost Rate	Return
		Initial A	Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$755,786,982	3.40%	\$25,696,757
2	Short-term Debt	4.00%	\$53,984,784	2.75%	\$1,484,582
3	Total Debt	60.00%	\$809,771,766	3.36%	\$27,181,339
	Equity				
4	Common Equity	40.00%	\$539,847,844	9.31%	\$50,259,834
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$539,847,844	9.31%	\$50,259,834
7	Total	100.00%	\$1,349,619,610	5.74%	\$77,441,173
		Applica	tion Update		
		(%)	(\$)	(%)	(\$)
	Debt	(70)	(Ψ)	(70)	(Ψ)
1	Long-term Debt	56.00%	\$763,605,810	3.40%	\$25,962,598
2	Short-term Debt	4.00%	\$54,543,272	2.75%	\$1,499,940
3	Total Debt	60.00%	\$818,149,082	3.36%	\$27,462,538
	Equity				
4	Common Equity	40.00%	\$545,432,721	9.31%	\$50,779,786
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$545,432,721	9.31%	\$50,779,786
7	Total	100.00%	\$1,363,581,803	5.74%	\$78,242,324
		Per Boa	rd Decision		
		(0/)	(())	(0/)	(4)
	Dobt	(%)	(\$)	(%)	(\$)
8	Debt Long-term Debt	56.00%	\$709,883,019	3.40%	\$24,136,023
9	Short-term Debt	4.00%	\$50,705,930	2.75%	\$1,394,413
10	Total Debt	60.00%	\$760,588,949	3.36%	\$25,530,436
	Equity				
11	Common Equity	40.00%	\$507,059,300	9.31%	\$47,207,221
12	Preferred Shares	0.00%	\$-	0.00%	\$-
13	Total Equity	40.00%	\$507,059,300	9.31%	\$47,207,221
14	Total	100.00%	\$1,267,648,249	5.74%	\$72,737,657
Note -					
<u>Notes</u>					



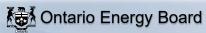
Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application Update		Per Board Decision		
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net	\$188,659,471 \$11,667,243	\$47,439,387 \$184,938,733 \$11,667,243	\$188,643,160 \$11,667,243	\$48,379,601 \$184,511,460 \$11,667,243	\$188,643,160 \$11,667,243	\$40,890,257 \$192,000,804 \$11,667,243	
4	Total Revenue	\$200,326,714	\$244,045,363	\$200,310,403	\$244,558,304	\$200,310,403	\$244,558,304	
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$157,838,491 \$27,181,339 \$185,019,830	\$157,838,491 \$27,181,339 \$185,019,830	\$157,712,086 \$27,462,538 \$185,174,624	\$157,712,086 \$27,462,538 \$185,174,624	\$157,712,086 \$25,530,436 \$183,242,522	\$157,712,086 \$25,530,436 \$183,242,522	
9	Utility Income Before Income Taxes	\$15,306,885	\$59,025,534	\$15,135,780	\$59,383,681	\$17,067,882	\$61,315,783	
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	
11	Taxable Income	(\$10,319,783)	\$33,398,866	(\$10,490,888)	\$33,757,013	(\$8,558,786)	\$35,689,115	
12 13	Income Tax Rate	26.50% \$ -	26.50% \$8,850,699	26.50% \$ -	26.50% \$8,945,608	26.50% \$ -	26.50% \$9,457,615	
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$15,391,885	(\$85,000) \$50,259,834	(\$85,000) \$15,220,780	(\$85,000) \$50,779,787	(\$85,000) \$17,152,882	(\$85,000) \$52,711,889	
16	Utility Rate Base	\$1,349,619,610	\$1,349,619,610	\$1,363,581,803	\$1,363,581,803	\$1,267,648,249	\$1,267,648,249	
17	Deemed Equity Portion of Rate Base	\$539,847,844	\$539,847,844	\$545,432,721	\$545,432,721	\$507,059,300	\$507,059,300	
18	Income/(Equity Portion of Rate Base)	2.85%	9.31%	2.79%	9.31%	3.38%	10.40%	
19	Target Return - Equity on Rate Base	9.31%	9.31%	9.31%	9.31%	9.31%	9.31%	
20	Deficiency/Sufficiency in Return on Equity	-6.46%	0.00%	-6.52%	0.00%	-5.93%	1.09%	
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	3.15% 5.74%	5.74% 5.74%	3.13% 5.74%	5.74% 5.74%	3.37% 5.74%	6.17% 5.74%	
23	Deficiency/Sufficiency in Rate of Return	-2.58%	0.00%	-2.61%	0.00%	-2.37%	0.43%	
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$50,259,834 \$34,867,950 \$47,439,387 (1)	\$50,259,834 \$0	\$50,779,786 \$35,559,007 \$48,379,601 (1)	\$50,779,786 \$1	\$47,207,221 \$30,054,339 \$40,890,257 (1)	\$47,207,221 \$5,504,668	

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)

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Revenue Requirement Workform (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application		Application Update		Per Board Decision	
1	OM&A Expenses	\$95,405,440		\$95,405,440		\$95,405,440	
2	Amortization/Depreciation	\$59,141,744		\$59,015,339		\$59,015,339	
3	Property Taxes	\$3,291,307		\$3,291,307		\$3,291,307	
5	Income Taxes (Grossed up)	\$8,765,699		\$8,603,894		\$8,603,894	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$27,181,339		\$27,462,538		\$25,530,436	
	Return on Deemed Equity	\$50,259,834		\$50,779,786		\$47,207,221	
8	Service Revenue Requirement						
	(before Revenues)	\$244,045,363	,	\$244,558,304		\$239,053,636	
9	Revenue Offsets	\$11,667,243		\$11,667,243		\$ -	
10	Base Revenue Requirement	\$232,378,120		\$232,891,060		\$239,053,636	
	(excluding Tranformer Owership Allowance credit adjustment)	<u> </u>	,	, . , , ,		,	
11	Distribution revenue	\$232.378.120		\$232.891.061		\$232,891,061	
12	Other revenue	\$11,667,243		\$11,667,243		\$11,667,243	
13	Total revenue	\$244,045,363		\$244,558,304		\$244,558,304	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	<u>\$0</u>	(1)	\$1_	(1)	\$5,504,668	(1)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

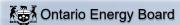
	Application	Application Update	Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$244,045,363	\$244,558,304	\$0	\$239,053,636	(\$1)
Deficiency/(Sufficiency)	\$47,439,387	\$48,379,601	\$0	\$40,890,257	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$232,378,120	\$232,891,060	\$0	\$239,053,636	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$43,718,649	\$44,247,901	\$0	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-Is** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

Customer Class		
Input the name of each customer class.		Te
Residential		
GS < 50 kW		
GS > 50 to 1,499 kW		
GS > 1,500 to 4,999 kW		
Large Use		
Street Lighting		
Sentinel Lighting		
Unmetered Scattered Load		
Standby Power		
	1 1	

Initial Application						
Customer / Connections	kWh	kW/kVA (1)				
Test Year average or mid-year	Annual	Annual				
322,306 25,704 3,049 68 11 64,645 55 3,321 3	2,299,513,000 697,989,000 2,831,390,000 682,571,000 572,033,000 20,413,000 47,000 12,663,000	6,821,528 1,517,607 1,049,467 56,618 132 7,440				

Application opuate							
Customer / Connections	kWh	kW/kVA (1)					
Test Year average or mid-year	Annual	Annual					
322,306 25,704 3,049 68 11 64,645 55 3,321 3	2,299,366,000 697,636,000 2,829,220,000 682,505,000 572,033,000 20,413,000 47,000 12,663,000	6,821,057 1,516,400 1,049,467 56,618 132 7,440					

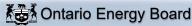
Application Update

Per Board Decision							
Customer /	kWh	kW/kVA (1)					
Connections Test Year average or mid-year	Annual	Annual					

Total 7,116,619,000 9,452,792 7,113,883,000 9,451,114 - -

Notes

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)	 s Allocated from evious Study (1)	%	Allocated Class Revenue Requirement		%
From Sheet 10. Load Forecast				(1) (7A)	
Residential	\$ 107,281,788	53.50%	\$	134,886,137	55.16%
GS < 50 kW	\$ 20,646,221	10.30%	\$	24,426,649	9.99%
GS > 50 to 1,499 kW	\$ 48,750,762	24.31%	\$	60,787,864	24.86%
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	12,817,991	5.24%
Large Use	\$ 8,063,832	4.02%	\$	9,882,964	4.04%
Street Lighting	\$ 1,811,439	0.90%	\$	1,109,158	0.45%
Sentinel Lighting	\$ 6,568	0.00%	\$	11,137	0.00%
Unmetered Scattered Load	\$ 547,549	0.27%	\$	621,435	0.25%
Standby Power	\$ 70,655	0.04%	\$	14,970	0.01%
Total	\$ 200,544,060	100.00%	\$	244,558,304	100.00%
		Service Revenue Requirement (from Sheet 9)	\$	244,558,303.73	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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Tab 1
Schedule 1
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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rent approved rates	LF X current proved rates X (1+d)	LF X	Proposed Rates	ı	Miscellaneous Revenues
	(7B)	(7C)		(7D)		(7E)
1 Residential	\$ 125,583,310	\$ 131,662,249	\$	131,655,555	\$	8,560,777
QS < 50 kW	\$ 26,677,735	\$ 28,231,853	\$	28,258,530	\$	1,043,585
GS > 50 to 1,499 kW	\$ 48,038,651	\$ 50,544,781	\$	50,544,505	\$	1,477,593
GS > 1,500 to 4,999 kW	\$ 11,971,157	\$ 12,245,671	\$	12,245,667	\$	288,647
Large Use	\$ 8,098,188	\$ 8,243,364	\$	8,243,395	\$	203,104
Street Lighting	\$ 1,200,359	\$ 1,275,362	\$	1,274,794	\$	54,845
Sentinel Lighting	\$ 5,934	\$ 6,276	\$	6,843	\$	933
Unmetered Scattered Load	\$ 608,987	\$ 658,559	\$	658,038	\$	37,299
Standby Power	\$ 21,684	\$ 22,947	\$	22,947	\$	460
Total	\$ 222,206,007	\$ 232,891,061	\$	232,910,273	\$	11,667,243

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.96%	103.95%	85 - 115
2 GS < 50 kW	118.23%	119.85%	119.96%	80 - 120
3 GS > 50 to 1,499 kW	86.34%	85.58%	85.58%	80 - 120
4 GS > 1,500 to 4,999 kW	98.24%	97.79%	97.79%	80 - 120
Large Use	85.36%	85.46%	85.47%	85 - 115
Street Lighting	80.00%	119.93%	119.88%	80 - 120
Sentinel Lighting	76.00%	64.73%	69.82%	80 - 120
Unmetered Scattered Load	118.72%	111.98%	111.89%	80 - 120
Standby Power	21.03%	156.36%	156.36%	80 - 120
1				
2				
3				
Į.				
5				
6				
,				
3				

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Proposed Revenue-to-Cost Ratio					
	Test Year	Price Cap IR P	eriod	, ,			
	2021	2022	2023				
Residential	103.95%	103.95%	103.95%	85 - 115			
GS < 50 kW	119.96%	119.96%	119.96%	80 - 120			
GS > 50 to 1,499 kW	85.58%	85.58%	85.58%	80 - 120			
GS > 1,500 to 4,999 kW	97.79%	97.79%	97.79%	80 - 120			
Large Use	85.47%	85.47%	85.47%	85 - 115			
Street Lighting	119.88%	119.88%	119.88%	80 - 120			
Sentinel Lighting	69.82%	69.82%	69.82%	80 - 120			
Unmetered Scattered Load	111.89%	111.89%	111.89%	80 - 120			
Standby Power	156.36%	156.36%	156.36%	80 - 120			

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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Revenue Requirement Workform (RRWF) for 2020 Filers

New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Residential Class								
Customers		322,306						
kWh		2,299,366,000						
Proposed Residential Class Specific Revenue	\$	131,655,554.88						
Requirement ¹								
Residential Base Rates on Current Tariff								
Monthly Fixed Charge (\$)	\$	34.04						
Distribution Volumetric Rate (\$/kWh)	\$	-						

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	34.04	322,306	\$ 131,655,554.88	100.00%
Variable	0	2,299,366,000	\$ -	0.00%
TOTAL	-	-	\$ 131,655,554.88	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	_
Transition Years ²	0

	Т	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	131,655,554.88	34.04	\$ 131,655,554.88
Variable	\$	-	0	\$ -
TOTAL	\$	131,655,554.88	-	\$ 131,655,554.88

				Revenue
		Revenue @ new	Final Adjusted	Reconciliation @
	New F/V Split	F/V Split	Base Rates	Adjusted Rates
Fixed				
Variable				
TOTAL	•	\$ -	i	

Checks ³							
Change in Fixed Rate							
Difference Between Revenues @ Proposed Rates							
and Class Specific Revenue Requirement							

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\particle{4}/year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

Ontario Energy Board

Revenue Requirement-Workform (RRWF) for 2020 Filers

Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment C **UPDATED** May 5, 2020 Page 16 of 17

Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:		,	Application Update		Cla	ss Allocated Rever	nues					Dist	ribution Rates		F	levenue Reconciliatio	n
	Customer and Lo	oad Forecast				11. Cost Allocation esidential Rate Des		Fixed / Vari	be entered as a								
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (\$)	Monthly Ser	No. of decimals	Volun	netric Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential 2 GS + 50 NW 3 GS > 50 Nt + 1499 NW 4 GS > 1500 to 4,999 NW 5 Large Use 6 Street Lighting 7 Sentinel Lighting 8 Standby Power 11 12 13 14 15 16 17 7 18 19 19 19 19 19 19 19 19 19 19 19 19 19	RAWTH RAWTH RAWTH RAWTH RAWTH RAWTH RAWTH RAWTH RAWTH RAWTH	322,306 25,704 3,049 68 111 64,645 55 3,321 3	2,299,366,000 687,636,000 2,829,220,000 682,505,000 572,033,000 20,413,000 12,663,000	6,821,057 1,516,400 1,049,467 56,618 132 7,440 - - - - - - - -	\$ 131,655,555 \$ 28,258,530 \$ 50,544,505 \$ 12,245,667 \$ 8,243,395 \$ 1,274,794 \$ 6,843 \$ 658,038 \$ 22,947	\$ 131,655,555 \$ 7,189,870 \$ 8,181,134 \$ 3,610,451 \$ 2,099,467 \$ 837,797 \$ 3,531 \$ 264,202 \$ 6,501	\$ 21,069,560 \$ 42,363,372 \$ 8,635,216 \$ 6,143,927 \$ 436,997 \$ 3,312 \$ 393,836 \$ 16,446	100.00%, 25.44%, 16.19%, 29.48%, 25.47%, 65.72%, 51.60%, 40.15%, 28.33%	0.00% 74.55% 83.81% 70.52% 74.53% 34.28% 48.40% 59.85% 71.67%	\$ 343,209 \$ 397,067 \$ 315,753	\$34.0 \$23.3 \$22.6 \$4,424.5 \$15,905.0 \$5.3 \$6.6 \$180.5		\$0.0302 \$6.2610 \$5.9564 \$6.1552 \$7.7183 \$25.0873 \$0.0311	KWPh KWP KWW KWW KWW KWW KWW KWW	######################################	\$ 221,068,607.2000 \$42,706,637,8770 \$42,706,637,8770 \$5,032,249,650,670,2764 \$5,032,249,650,670,2764 \$3,3311,5236 \$16,446,1200 \$5,032,670,670,670,670,670,670,670,670,670,670	######################################
							T	otal Transformer Ow	nership Allowance	\$ 1,056,029			Rates recover rev	enue requirement	Total Distribution Re		*************
Notes: 1 Transformer Ownership Allowance is	entered as a positive a	amount, and only fo	r those classes to wh	ich it applies.									1465 15000 101	ondo requitations	Difference % Difference		\$ 19,212.69 0.008%

Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment C UPDATED May 5, 2020 Page 17 of 17

Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

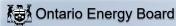
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

Summary of Proposed Changes

Π			Cost of	Capital	Rate Base	Rate Base and Capital Expenditures		Operating Expenses			Revenue Requirement			
F	Reference ⁽¹⁾	ttem / Description (2) Regulated Return on Rate of Capital Return Return of Return o		Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues						
Ī		Original Application	\$ 77,441,173	5.74%	\$1,349,619,610	\$1,266,083,819	\$ 94,956,286	\$ 59,141,744	\$ 8,765,699	\$ 95,405,440	\$ 244,045,363	\$ 11,667,243	\$ 232,378,120	\$ 47,439,387
١		Updated Application for 2019 Actuals Change	\$ 78,242,324 \$ 801,151	5.74% 0.00%		\$1,279,114,049 \$13,030,230					\$ 244,558,304 \$ 512,940		\$ 232,891,060 \$ 512,940	





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2024

Bridge Year

Last Rebasing Year 2016

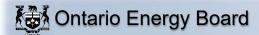
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Hydro Ottawa Limited
EB-2019-0261
Exhibit 6
Tab 1
Schedule 1
Attachment D
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Hydro Ottawa Limited
EB-2019-0261
Exhibit 6
Tab 1
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Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

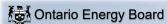
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pale green cells re	present inputs
-------------------------	----------------

- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment D UPDATED May 5, 2020 Page 3 of 17

Data Input (1)

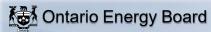
	_	Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	_	Per Board Decision	_
1	Rate Base										
•	Gross Fixed Assets (average)	\$1,750,450,428		\$5,535,064		\$1,755,985,492				\$1,755,985,492	
	Accumulated Depreciation (average)	(\$476,047,244)	(5)	\$7,576,266		(\$468,470,978)				(\$468,470,978)	
	Allowance for Working Capital:										
	Controllable Expenses	\$101,174,035				\$ 101,174,035				\$101,174,035	
	Cost of Power	\$1,264,188,174	(9)	\$12,973,656		\$ 1,277,161,830	(9)			\$1,277,161,830	(9)
	Working Capital Rate (%)	7.50%	(3)	\$0		7.50%	(3)				(3)
2	Utility Income										
	Operating Revenues:										
	Distribution Revenue at Current Rates	\$189,644,373		(\$16,564)		\$189,627,810					
	Distribution Revenue at Proposed Rates Other Revenue:	\$241,253,766		\$563,660		\$241,817,426					
	Specific Service Charges	\$5,910,078		\$0		\$5,910,078					
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000					
	Other Distribution Revenue	\$3,060,205		\$0		\$3,060,205					
	Other Income and Deductions	\$2,181,108		\$0		\$2,181,108					
	Total Revenue Offsets	\$12,151,392	(7)	\$0		\$12,151,392					
	Operating Expenses:	007.000.447		•		07.000.447				007.000.447	
	OM+A Expenses Depreciation/Amortization	\$97,800,117 \$60,711,328		\$ - (\$126,405)		\$ 97,800,117 \$ 60,584,923				\$97,800,117 \$60,584,923	
	Property taxes	\$3,373,918		(\$120,405)		\$ 3,373,918				\$3,373,918	
	Other expenses	ψο,οτο,οτο		Ψ		φ 0,070,010				φο,οτο,οτο	
3	Taxes/PILs										
•	Taxable Income:										
		(\$19,163,272)	(3)	\$0		(\$19,163,272)					
	Adjustments required to arrive at taxable income										
	Utility Income Taxes and Rates:										
	Income taxes (not grossed up)	\$8,569,789		(\$93,259)		\$8,476,530					
	Income taxes (grossed up)	\$11,659,577		••		\$11,532,694					
	Federal tax (%)	15.00%		\$0		15.00%					
	Provincial tax (%) Income Tax Credits	11.50% (\$85,000)		\$0 \$0		11.50% (\$85,000)					
		(ψου,σου)		ΨŪ		(\$00,000)					
4	Capitalization/Cost of Capital Capital Structure:										
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%					
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0			(8)				(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%					
	Prefered Shares Capitalization Ratio (%)			**							
	•	100.0%			_	100.0%					
	Cost of Capital	0.440/				0.440/					
	Long-term debt Cost Rate (%)	3.44% 2.75%		\$0 \$0		3.44% 2.75%					
	Short-term debt Cost Rate (%) Common Equity Cost Rate (%)	2.75% 9.41%		\$0 \$0		2.75% 9.41%					
	Prefered Shares Cost Rate (%)	J.+170		Ψ		3.7170					
	(/										

Notes:

General

Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- (6) Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- 7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- (8) 4.0% unless an Applicant has proposed or been approved for another amount.
- (9) The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

R	at	te	В	а	s	e

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2	φ1,730,430,420	\$5,535,064	\$1,755,985,492	\$ -	\$1,755,985,492
2	Accumulated Depreciation (average) (2	(\$476,047,244)	\$7,576,266	(\$468,470,978)	<u> </u>	(\$468,470,978)
3	Net Fixed Assets (average)	\$1,274,403,184	\$13,111,330	\$1,287,514,514	\$ -	\$1,287,514,514
4	Allowance for Working Capital (1	\$102,402,166	\$973,024	\$103,375,190	##########	\$ -
5	Total Rate Base	\$1,376,805,350	\$14,084,354	\$1,390,889,704	##########	\$1,287,514,514

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$101,174,035	\$ -	\$101.174.035	\$ -	\$101,174,035
Cost of Power Working Capital Base		\$1,264,188,174 \$1,365,362,209	\$12,973,656 \$12,973,656	\$1,277,161,830 \$1,378,335,865	<u> </u>	\$1,277,161,830 \$1,378,335,865
Working Capital Rate %	(1)	7.50%	0.00%	7.50%	-7.50%	0.00%
Working Capital Allowance		\$102.402.166	\$973.024	\$103,375,190	##########	

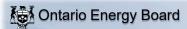
Notes

6

9

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

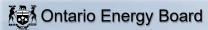
Average of opening and closing balances for the year.



Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$241,253,766	\$563,660	\$241,817,426	\$ -	\$241,817,426
2	Other Revenue (1	\$12,151,392	<u> </u>	\$12,151,392	\$ -	\$12,151,392
3	Total Operating Revenues	\$253,405,158	\$563,660	\$253,968,818	\$ -	\$253,968,818
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$97,800,117 \$60,711,328 \$3,373,918 \$ - \$ -	\$ - (\$126,405) \$ - \$ - \$ -	\$97,800,117 \$60,584,923 \$3,373,918 \$-	\$ - \$ - \$ - \$ - \$ -	\$97,800,117 \$60,584,923 \$3,373,918 \$-
9	Subtotal (lines 4 to 8)	\$161,885,363	(\$126,405)	\$161,758,958	\$ -	\$161,758,958
10	Deemed Interest Expense	\$28,037,264	\$286,814	\$28,324,078	(\$2,105,132)	\$26,218,946
11	Total Expenses (lines 9 to 10)	\$189,922,628	\$160,409	\$190,083,036	(\$2,105,132)	\$187,977,904
12	Utility income before income taxes	\$63,482,530	\$403,251	\$63,885,782	\$2,105,132	\$65,990,914
13	Income taxes (grossed-up)	\$11,659,577	(\$126,883)	\$11,532,694	\$ -	\$11,532,694
14	Utility net income	\$51,822,953	\$530,134	\$52,353,088	\$2,105,132	\$54,458,220
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions Total Revenue Offsets	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108 \$12,151,392	\$ - \$ - \$ - \$ -	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108 \$12,151,392	\$-	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108 \$12,151,392
		+,,		+		

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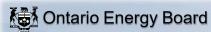
Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$51,822,953	\$52,353,088	\$48,462,046
2	Adjustments required to arrive at taxable utility income	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)
3	Taxable income	\$32,659,681	\$33,189,816	\$29,298,774
	Calculation of Utility income Taxes			
4	Income taxes	\$8,569,789	\$8,476,530	\$8,476,530
6	Total taxes	\$8,569,789	\$8,476,530	\$8,476,530
7	Gross-up of Income Taxes	\$3,089,788	\$3,056,164	\$3,056,164
8	Grossed-up Income Taxes	\$11,659,577	\$11,532,694	\$11,532,694
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$11,659,577	\$11,532,694	\$11,532,694
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

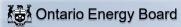
UPDATED May 5, 2020 Page 7 of 17



Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capita	lization Ratio	Cost Rate	Return
		Initial	Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$771,010,996	3.44%	\$26,522,778
2	Short-term Debt	4.00%	\$55,072,214	2.75%	\$1,514,486
3	Total Debt	60.00%	\$826,083,210	3.39%	\$28,037,264
	Equity				
4	Common Equity	40.00%	\$550,722,140	9.41%	\$51,822,953
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$550,722,140	9.41%	\$51,822,953
7	Total	100.00%	\$1,376,805,350	5.80%	\$79,860,218
		Applic	ation Update		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$778,898,234	3.44%	\$26,794,099
2	Short-term Debt	4.00%	\$55,635,588	2.75%	\$1,529,979
3	Total Debt	60.00%	\$834,533,822	3.39%	\$28,324,078
	Equity				
4	Common Equity	40.00%	\$556,355,882	9.41%	\$52,353,088
5 6	Preferred Shares Total Equity	0.00% 40.00%	<u>\$ -</u> \$556,355,882	<u>0.00%</u> 9.41%	\$ <u>\$ -</u> \$52,353,088
0	Total Equity	40.00%	\$330,333,662	9.41%	\$52,553,066
7	Total	100.00%	\$1,390,889,704	5.80%	\$80,677,166
		Per Bo	pard Decision		
		(0/)	(4)	(0/)	(4)
	Debt	(%)	(\$)	(%)	(\$)
8	Long-term Debt	56.00%	\$721,008,128	3.44%	\$24,802,680
9	Short-term Debt	4.00%	\$51,500,581	2.75%	\$1,416,266
10	Total Debt	60.00%	\$772,508,708	3.39%	\$26,218,946
				·	
44	Equity Common Equity	40.000/	¢E4E 00E 00C	0.440/	¢49,469,046
11 12	Preferred Shares	40.00% 0.00%	\$515,005,806 \$ -	9.41% 0.00%	\$48,462,046 \$ -
13	Total Equity	40.00%	\$515,005,806	9.41%	\$48,462,046
14	Total	100.00%	\$1,287,514,514	5.80%	\$74,680,992
<u>Notes</u>					



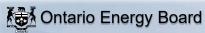
Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application	Update	Per Board D	Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net	\$189,644,373 \$12,151,392	\$54,237,845 \$187,015,921 \$12,151,392	\$189,627,810 \$12,151,392	\$55,199,896 \$186,617,530 \$12,151,392	\$189,627,810 \$12,151,392	\$47,041,835 \$194,775,591 \$12,151,392
4	Total Revenue	\$201,795,765	\$253,405,158	\$201,779,201	\$253,968,818	\$201,779,201	\$253,968,818
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$161,885,363 \$28,037,264 \$189,922,628	\$161,885,363 \$28,037,264 \$189,922,628	\$161,758,958 \$28,324,078 \$190,083,036	\$161,758,958 \$28,324,078 \$190,083,036	\$161,758,958 \$26,218,946 \$187,977,904	\$161,758,958 \$26,218,946 \$187,977,904
9	Utility Income Before Income Taxes	\$11,873,138	\$63,482,530	\$11,696,165	\$63,885,782	\$13,801,297	\$65,990,914
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)
11	Taxable Income	(\$7,290,134)	\$44,319,258	(\$7,467,107)	\$44,722,510	(\$5,361,975)	\$46,827,642
12 13	Income Tax Rate	26.50% \$ -	26.50% \$11,744,603	26.50% \$ -	26.50% \$11,851,465	26.50% \$ -	26.50% \$12,409,325
14	Income Tax on Taxable Income Income Tax Credits	(\$85,000)	(\$85.000)	(\$85,000)	(\$85,000)	(\$85.000)	(\$85.000)
15	Utility Net Income	\$11,958,138	\$51,822,953	\$11,781,165	\$52,353,088	\$13,886,297	\$54,458,220
16	Utility Rate Base	\$1,376,805,350	\$1,376,805,350	\$1,390,889,704	\$1,390,889,704	\$1,287,514,514	\$1,287,514,514
17	Deemed Equity Portion of Rate Base	\$550,722,140	\$550,722,140	\$556,355,882	\$556,355,882	\$515,005,806	\$515,005,806
18	Income/(Equity Portion of Rate Base)	2.17%	9.41%	2.12%	9.41%	2.70%	10.57%
19	Target Return - Equity on Rate Base	9.41%	9.41%	9.41%	9.41%	9.41%	9.41%
20	Deficiency/Sufficiency in Return on Equity	-7.24%	0.00%	-7.29%	0.00%	-6.71%	1.16%
21	Indicated Rate of Return	2.90%	5.80%	2.88%	5.80%	3.11%	6.27%
22	Requested Rate of Return on Rate Base	5.80%	5.80%	5.80%	5.80%	5.80%	5.80%
23	Deficiency/Sufficiency in Rate of Return	-2.90%	0.00%	-2.92%	0.00%	-2.69%	0.47%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$51,822,953 \$39,864,816 \$54,237,845 (1)	\$51,822,953 \$0	\$52,353,088 \$40,571,923 \$55,199,896 (1)	\$52,353,088 (\$1)	\$48,462,046 \$34,575,749 \$47,041,835 (1)	\$48,462,046 \$5,996,174

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)

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Revenue Requirement Workform (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application	_	Application Update		Per Board Decision	
1	OM&A Expenses	\$97,800,117		\$97,800,117		\$97,800,117	
2	Amortization/Depreciation	\$60,711,328		\$60,584,923		\$60,584,923	
3	Property Taxes	\$3,373,918		\$3,373,918		\$3,373,918	
5	Income Taxes (Grossed up)	\$11,659,577		\$11,532,694		\$11,532,694	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$28,037,264		\$28,324,078		\$26,218,946	
	Return on Deemed Equity	\$51,822,953	_	\$52,353,088		\$48,462,046	
8	Service Revenue Requirement						
	(before Revenues)	\$253,405,158	_	\$253,968,819		\$247,972,644	
9	Revenue Offsets	\$12,151,392		\$12,151,392		\$ -	
10	Base Revenue Requirement	\$241,253,766	-	\$241,817,427		\$247,972,644	
	(excluding Tranformer Owership Allowance credit adjustment)	<u> </u>	_	· ,· ,			
11	Distribution revenue	\$241.253.766		\$241.817.426		\$241,817,426	
12	Other revenue	\$12,151,392	_	\$12,151,392		\$12,151,392	
13	Total revenue	\$253,405,158	_	\$253,968,818		\$253,968,818	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	\$0_	(1)	(\$1 <u>)</u>	(1)	\$5,996,174	(1)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

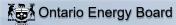
	Application	Application Update	$\Delta\%$ ⁽²⁾	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$253,405,158	\$253,968,819	\$0	\$247,972,644	(\$1)
Deficiency/(Sufficiency)	\$54,237,845	\$55,199,896	\$0	\$47,041,835	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$241,253,766	\$241,817,427	\$0	\$247,972,644	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$51,609,393	\$52,189,616	\$0	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-Is** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

Customer Class
Input the name of each customer class.
Residential
GS < 50 kW
GS > 50 to 1,499 kW
GS > 1,500 to 4,999 kW
Large Use
Street Lighting
Sentinel Lighting Unmetered Scattered Load
Standby Power
Standby i Swei

	In	itial Application	
Customer / Connections		kWh	kW/kVA (1)
Test Year average or mid-year		Annual	Annual
325,150 25,846 3,013 68 11 65,564 55 3,321 3		2,333,345,000 698,161,000 2,844,419,000 684,488,000 572,834,000 19,603,000 47,000 12,195,000	6,838,752 1,521,105 1,050,683 54,373 132 7,440

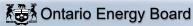
	Application Update	
Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ Annual
325,150 25,846 3,013 68 11 65,564 55 3,321 3	2,333,198,000 697,774,000 2,841,988,000 684,409,000 572,834,000 19,603,000 47,000 12,195,000	6,838,407 1,519,896 1,050,683 54,374 132 7,440

Pe	er Board Decision	
Customer / Connections	kWh	kW/kVA (1)
Test Year average or mid-year	Annual	Annual

Total 7,165,092,000 9,472,485 7,162,048,000 9,470,932 - -

Notes

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)	 s Allocated from vious Study (1)	%	-	Allocated Class enue Requirement	%
From Sheet 10. Load Forecast				(1) (7A)	
Residential	\$ 107,281,788	53.50%	\$	140,076,506	55.16%
GS < 50 kW	\$ 20,646,221	10.30%	\$	25,366,577	9.99%
GS > 50 to 1,499 kW	\$ 48,750,762	24.31%	\$	63,126,959	24.86%
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	13,311,223	5.24%
Large Use	\$ 8,063,832	4.02%	\$	10,263,257	4.04%
Street Lighting	\$ 1,811,439	0.90%	\$	1,151,838	0.45%
Sentinel Lighting	\$ 6,568	0.00%	\$	11,566	0.00%
Unmetered Scattered Load	\$ 547,549	0.27%	\$	645,347	0.25%
Standby Power	\$ 70,655	0.04%	\$	15,546	0.01%
Total	\$ 200,544,060	100.00%	\$	253,968,818	100.00%
		Service Revenue Requirement (from Sheet 9)	\$	253,968,818.71	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rent approved rates	LF X current proved rates X (1+d)	LF X	Proposed Rates	Miscellaneous Revenues		
	(7B)	(7C)		(7D)		(7E)	
1 Residential	\$ 132,817,272	\$ 136,684,348	\$	136,680,054	\$	8,916,019	
QS < 50 kW	\$ 28,302,418	\$ 29,340,369	\$	29,333,599	\$	1,086,890	
GS > 50 to 1,499 kW	\$ 50,899,748	\$ 52,480,738	\$	52,481,058	\$	1,538,907	
GS > 1,500 to 4,999 kW	\$ 12,663,558	\$ 12,714,983	\$	12,714,911	\$	300,625	
Large Use	\$ 8,566,632	\$ 8,559,296	\$	8,559,248	\$	211,532	
Street Lighting	\$ 1,269,384	\$ 1,323,574	\$	1,322,985	\$	57,121	
Sentinel Lighting	\$ 6,843	\$ 7,102	\$	7,691	\$	972	
Unmetered Scattered Load	\$ 643,483	\$ 683,190	\$	682,993	\$	38,846	
Standby Power 2 2 3 4 5 6 7 7	\$ 22,947	\$ 23,826	\$	23,827	\$	479	
Total	\$ 235,192,284	\$ 241,817,426	\$	241,806,366	\$	12,151,392	

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.94%	103.94%	85 - 115
GS < 50 kW	118.23%	119.95%	119.92%	80 - 120
GS > 50 to 1,499 kW	86.34%	85.57%	85.57%	80 - 120
GS > 1,500 to 4,999 kW	98.24%	97.78%	97.78%	80 - 120
Large Use	85.36%	85.46%	85.46%	85 - 115
Street Lighting	80.00%	119.87%	119.82%	80 - 120
Sentinel Lighting	76.00%	69.81%	74.91%	80 - 120
Unmetered Scattered Load	118.72%	111.88%	111.85%	80 - 120
Standby Power	21.03%	156.35%	156.35%	80 - 120
•				

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

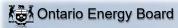
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Proposed Revenue-to-Cost Ratio							
	Test Year	Price Cap IR F	Period	Policy Range					
	2021	2022	2023						
Residential	103.94%	103.94%	103.94%	85 - 115					
GS < 50 kW	119.92%	119.92%	119.92%	80 - 120					
GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120					
GS > 1,500 to 4,999 kW	97.78%	97.78%	97.78%	80 - 120					
Large Use	85.46%	85.46%	85.46%	85 - 115					
Street Lighting	119.82%	119.82%	119.82%	80 - 120					
Sentinel Lighting	74.91%	74.91%	74.91%	80 - 120					
Unmetered Scattered Load	111.85%	111.85%	111.85%	80 - 120					
Standby Power	156.35%	156.35%	156.35%	80 - 120					

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for R	esident	ial Class
Customers		325,150
kWh		2,333,198,000
Proposed Residential Class Specific Revenue	\$	136,680,054.00
Requirement ¹		
<u> </u>	1 maintenance	
Residential Base Rates on Cur	rent Ta	riff
Monthly Fixed Charge (\$)	\$	35.03
Distribution Volumetric Rate (\$/kWh)	\$	-

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	35.03	325,150	\$ 136,680,054.00	100.00%
Variable	0	2,333,198,000	\$ -	0.00%
TOTAL	-	=	\$ 136,680,054.00	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	
Transition Years ²	0

	Current F/V Split		Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split		
Fixed	\$	136,680,054.00	35.03	\$ 136,680,054.00		
Variable	\$	-	0	\$ -		
TOTAL	\$	136,680,054.00	-	\$ 136,680,054.00		

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$ -	-	

Checks ³	
Change in Fixed Rate	
Difference Between Revenues @ Proposed Rates	
and Class Specific Revenue Requirement	

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\particle{4}/year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

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Revenue Requirement-Workform (RRWF) for 2020 Filers

Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:		,	Application Update		Cla	ss Allocated Rever	nues					Dist	ribution Rates		F	Revenue Reconciliation	on
	Customer and Lo	oad Forecast				11. Cost Allocation esidential Rate Des			iable Splits ² be entered as a ween 0 and 1								
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (\$)	Monthly Ser	No. of decimals	Volum	netric Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential S	KWh KVH KW KW KW KW KW KW	325,150 25,846 3,013 68 111 65,564 3,321 3	2,333,198,000 697,774,000 2,841,988,000 684,409,000 19,603,000 47,000 12,195,000	6,838,407 1,519,896 1,050,683 54,374 132 7,440	\$ 136,680,054 \$ 29,333,599 \$ 52,481,058 \$ 12,714,911 \$ 8,559,248 \$ 1,322,985 \$ 7,691 \$ 682,993 \$ 23,827	\$ 136,680,054 \$ 7,491,801 \$ 8,335,829 \$ 3,625,110 \$ 2,099,468 \$ 889,046 \$ 3,967 \$ 280,505 \$ 6,750	\$ 21,841,797 \$ 44,145,229 \$ 9,089,801 \$ 6,459,780 \$ 433,939 \$ 3,725 \$ 402,488 \$ 17,077	100.00%, 25.84%, 15.84%, 15.84%, 15.84%, 24.53%, 67.20%, 51.57%, 41.07%, 28.33%	0.00% 74.46% 84.12% 71.49% 75.47% 32.80% 48.43% 58.93% 71.67%	\$ 344,016 \$ 398,000 \$ 316,495	\$35.0 \$24.1 \$230.5 \$4,442.5 \$15,905.0 \$1.1 \$6.0 \$7.0 \$187.4	5 5 4 3 3 1	\$0.0313 \$6.5058 \$6.2424 \$6.4494 \$7.9806 \$28.2183 \$0.0330	JRAWIh 4 JRAWIH JRA	######################################	\$21,840,326,2000 \$44,489,308,2006 \$44,489,308,2006 \$5,477,6274,9402 \$6,477,6274,9402 \$1,776,274,94042 \$1,724,8156 \$433,937,746,274,9402 \$5,724,8156 \$5,05,05,05,05,05,05,05,05,05,05,05,05,05	######################################
							Т	otal Transformer Ow	nership Allowance	\$ 1,058,511			Rates recover re	venue requirement	Total Distribution Re		************
Notes: 1 Transformer Ownership Allowance is	entered as a positive a	amount, and only fo	r those classes to wh	nich it applies.											Difference % Difference		-\$ 11,060.62 -0.005%

Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

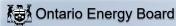
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

Summary of Proposed Changes

Γ			Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Ope	erating Expense	es		Revenue R	equirement	
F	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)		Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
		Original Application	\$ 79,860,218				\$ 102,402,166				\$ 253,405,158			
		Updated Application for 2019 Actuals	\$ 80,677,166	5.80%	\$1,390,889,704	\$1,378,335,865	\$ 103,375,190	\$ 60,584,923	\$ 11,532,694	\$ 97,800,117	\$ 253,968,819	\$ 12,151,392	\$ 241,817,427	\$ 55,199,896





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2025

Bridge Year

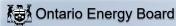
Last Rebasing Year 2016

The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final onnes at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

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While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Hydro Ottawa Limited
EB-2019-0261
Exhibit 6
Tab 1
Schedule 1
Attachment E
UPDATED
May 5, 2020
Page 1 of 18





Version 9.00

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

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Test Year 2025

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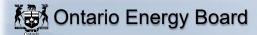
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Hydro Ottawa Limited
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Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

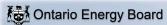
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pale	e green ce	lls represen	t inputs
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- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment E UPDATED May 5, 2020 Page 4 of 18

Data Input (1)

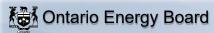
	_	Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	Per Board Decision	
1	Rate Base									
	Gross Fixed Assets (average)	\$1,850,890,773		\$5,535,064		\$1,856,425,837			\$1,856,425,837	
	Accumulated Depreciation (average)	(\$537,205,937)	(5)	\$7,702,671		(\$529,503,266)			(\$529,503,266	i)
	Allowance for Working Capital:	0100 710 500				A 100 710 500			#400 740 F00	
	Controllable Expenses Cost of Power	\$103,713,503 \$1,310,655,495		\$12,955,221		\$ 103,713,503 \$1,323,610,716			\$103,713,503 \$1,323,610,716	
	Working Capital Rate (%)	7.50%	(9)	\$0		7.50%	(9)		ψ1,323,010,710	(9)
2	Utility Income Operating Revenues:									
	Distribution Revenue at Current Rates	\$190.581.980		(\$15,383)		\$190.566.597				
	Distribution Revenue at Proposed Rates Other Revenue:	\$247,596,176		\$621,157		\$248,217,333				
	Specific Service Charges	\$6,212,623		\$0		\$6,212,623				
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000				
	Other Distribution Revenue	\$3,162,990		\$0		\$3,162,990				
	Other Income and Deductions	\$2,081,096		\$0		\$2,081,096				
	Total Revenue Offsets	\$12,456,709	(7)	\$0		\$12,456,709				
	Operating Expenses:									
	OM+A Expenses	\$100,254,900				\$ 100,254,900			\$100,254,900)
	Depreciation/Amortization	\$64,026,637		(\$126,405)		\$ 63,900,232			\$63,900,232	
	Property taxes	\$3,458,604				\$ 3,458,604			\$3,458,604	
	Other expenses									
3	Taxes/PILs									
	Taxable Income:									
	Adjustments required to arrive at taxable income	(\$32,076,354)	(3)	\$0		(\$32,076,354)				
	Utility Income Taxes and Rates:									
	Income taxes (not grossed up)	\$5,651,577		(\$73,041)		\$5,578,536				
	Income taxes (grossed up)	\$7,689,220		(, ,,, ,		\$7,589,845				
	Federal tax (%)	15.00%		\$0		15.00%				
	Provincial tax (%)	11.50%		\$0		11.50%				
	Income Tax Credits	(\$85,000)		\$0		(\$85,000)				
4	Capitalization/Cost of Capital Capital Structure:									
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%				
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)			(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%				
	Prefered Shares Capitalization Ratio (%)	100.00/				400.00/				
		100.0%				100.0%				
	Cost of Capital									
	Long-term debt Cost Rate (%)	3.69%		\$0		3.69%				
	Short-term debt Cost Rate (%)	2.75%		\$0		2.75%				
	Common Equity Cost Rate (%)	9.46%		\$0		9.46%				
	Prefered Shares Cost Rate (%)									

Notes:

General

Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- (6) Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- [7] Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- (8) 4.0% unless an Applicant has proposed or been approved for another amount.
- (9) The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

Rate Base

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1 2 3	Gross Fixed Assets (average) Accumulated Depreciation (average) Net Fixed Assets (average)	(\$557,205,957)	\$5,535,064 <u>\$7,702,671</u> \$13,237,735	\$1,856,425,837 (\$529,503,266) \$1,326,922,571	\$ - \$ - \$ -	\$1,856,425,837 (\$529,503,266) \$1,326,922,571
4	, ,	\$1,313,084,830 \$106,077,675	\$971,642	\$107,049,316	#########	\$ -
5	Total Rate Base	\$1,419,762,511	\$14,209,377	\$1,433,971,887	##########	\$1,326,922,571

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$103,713,503	\$ -	\$103,713,503	\$ -	\$103,713,503
Cost of Power		\$1,310,655,495	\$12,955,221	\$1,323,610,716	\$ -	\$1,323,610,716
Working Capital Base		\$1,414,368,998	\$12,955,221	\$1,427,324,219	\$ -	\$1,427,324,219
	(4)					
Working Capital Rate %	(1)	7.50%	0.00%	7.50%	-7.50%	0.00%
Working Capital Allowance		\$106,077,675	\$971,642	\$107,049,316	#######################################	\$ -

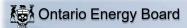
<u>Notes</u>

6 7

9

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.

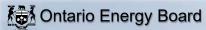


Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$247,596,176	\$621,157	\$248,217,333	\$ -	\$248,217,333
2	Other Revenue (1	\$12,456,709	\$ -	\$12,456,709	\$ -	\$12,456,709
3	Total Operating Revenues	\$260,052,885	\$621,157	\$260,674,042	\$-	\$260,674,042
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$100,254,900 \$64,026,637 \$3,458,604 \$- \$-	\$- (\$126,405) \$- \$- \$-	\$100,254,900 \$63,900,232 \$3,458,604 \$-	\$ - \$ - \$ - \$ - \$ -	\$100,254,900 \$63,900,232 \$3,458,604 \$ -
9	Subtotal (lines 4 to 8)	\$167,740,140	(\$126,405)	\$167,613,735	\$ -	\$167,613,735
10	Deemed Interest Expense	\$30,899,711	\$309,253	\$31,208,964	(\$2,329,821)	\$28,879,143
11	Total Expenses (lines 9 to 10)	\$198,639,852	\$182,848	\$198,822,700	(\$2,329,821)	\$196,492,878
12	Utility income before income taxes	\$61,413,034	\$438,309	\$61,851,343	\$2,329,821	\$64,181,164
13	Income taxes (grossed-up)	\$7,689,220	(\$99,376)	\$7,589,845	\$ -	\$7,589,845
14	Utility net income	\$53,723,813	\$537,684	\$54,261,498	\$2,329,821	\$56,591,319
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions Total Revenue Offsets	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096	\$ - \$ - \$ - \$ -	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096	\$-	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096

May 5, 2020

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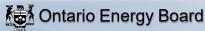
Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$53,723,813	\$54,261,496	\$50,210,750
2	Adjustments required to arrive at taxable utility income	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)
3	Taxable income	\$21,647,459	\$22,185,142	\$18,134,396
	Calculation of Utility income Taxes			
4	Income taxes	\$5,651,577	\$5,578,536	\$5,578,536
6	Total taxes	\$5,651,577	\$5,578,536	\$5,578,536
7	Gross-up of Income Taxes	\$2,037,643	\$2,011,309	\$2,011,309
8	Grossed-up Income Taxes	\$7,689,220	\$7,589,845	\$7,589,845
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$7,689,220	\$7,589,845	\$7,589,845
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

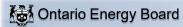
UPDATED May 5, 2020 Page 8 of 18



Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capita	alization Ratio	Cost Rate	Return
		Initia	I Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$795,067,006	3.69%	\$29,337,973
2	Short-term Debt	4.00%	\$56,790,500	2.75%	\$1,561,739
3	Total Debt	60.00%	\$851,857,507	3.63%	\$30,899,711
			, , , , , , , , , , , , , , , , , , , ,		***************************************
	Equity				
4	Common Equity	40.00%	\$567,905,004	9.46%	\$53,723,813
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$567,905,004	9.46%	\$53,723,813
7	Total	100.00%	\$1,419,762,511	5.96%	\$84,623,525
•	Total	100.00%	ψ1,110,702,011	0.0070	Ψο 1,020,020
		Applic	cation Update		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$803,024,257	3.69%	\$29,631,595
2	Short-term Debt	4.00%	\$57,358,875	2.75%	\$1,577,369
3	Total Debt	60.00%	\$860,383,132	3.63%	\$31,208,964
	Equity				
4	Common Equity	40.00%	\$573,588,755	9.46%	\$54,261,496
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$573,588,755	9.46%	\$54,261,496
7	Total	100.00%	\$1,433,971,887	5.96%	\$85,470,460
		Per Bo	oard Decision		
		(%)	(\$)	(%)	(\$)
	Debt	(70)	(4)	(70)	(Ψ)
8	Long-term Debt	56.00%	\$743,076,640	3.69%	\$27,419,528
9	Short-term Debt	4.00%	\$53,076,903	2.75%	\$1,459,615
10	Total Debt	60.00%	\$796,153,543	3.63%	\$28,879,143
				·	
	Equity				
11	Common Equity	40.00%	\$530,769,028	9.46%	\$50,210,750
12	Preferred Shares	0.00%	<u> </u>	0.00%	\$ -
13	Total Equity	40.00%	\$530,769,028	9.46%	\$50,210,750
14	Total	100.00%	\$1,326,922,571	5.96%	\$79,089,893
Natas					
<u>Notes</u>					

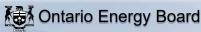


Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application	Update	Per Board D	Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net Total Revenue	\$190,581,980 \$12,456,709 \$203,038,689	\$66,993,165 \$180,603,011 \$12,456,709 \$260,052,885	\$190,566,597 \$12,456,709 \$203,023,306	\$67,994,408 \$180,222,925 \$12,456,709 \$260,674,042	\$190,566,597 \$12,456,709 \$203,023,306	\$59,313,363 \$188,903,970 \$12,456,709
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$167,740,140 \$30,899,711 \$198,639,852	\$167,740,140 \$30,899,711 \$198,639,852	\$167,613,735 \$31,208,964 \$198,822,700	\$167,613,735 \$31,208,964 \$198,822,700	\$167,613,735 \$28,879,143 \$196,492,878	\$167,613,735 \$28,879,143 \$196,492,878
9	Utility Income Before Income Taxes	\$4,398,837	\$61,413,034	\$4,200,607	\$61,851,343	\$6,530,428	\$64,181,164
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)
11	Taxable Income	(\$27,677,517)	\$29,336,680	(\$27,875,747)	\$29,774,989	(\$25,545,926)	\$32,104,810
12 13	Income Tax Rate	26.50% \$ -	26.50% \$7,774,220	26.50% \$ -	26.50% \$7,890,372	26.50% \$ -	26.50% \$8,507,775
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$4,483,837	(\$85,000) \$53,723,813	(\$85,000) \$4,285,607	(\$85,000) \$54,261,498	(\$85,000) \$6,615,428	(\$85,000) \$56,591,319
16	Utility Rate Base	\$1,419,762,511	\$1,419,762,511	\$1,433,971,887	\$1,433,971,887	\$1,326,922,571	\$1,326,922,571
17	Deemed Equity Portion of Rate Base	\$567,905,004	\$567,905,004	\$573,588,755	\$573,588,755	\$530,769,028	\$530,769,028
18	Income/(Equity Portion of Rate Base)	0.79%	9.46%	0.75%	9.46%	1.25%	10.66%
19	Target Return - Equity on Rate Base	9.46%	9.46%	9.46%	9.46%	9.46%	9.46%
20	Deficiency/Sufficiency in Return on Equity	-8.67%	0.00%	-8.71%	0.00%	-8.21%	1.20%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	2.49% 5.96%	5.96% 5.96%	2.48% 5.96%	5.96% 5.96%	2.67% 5.96%	6.44% 5.96%
23	Deficiency/Sufficiency in Rate of Return	-3.47%	0.00%	-3.49%	0.00%	-3.29%	0.48%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$53,723,813 \$49,239,976 \$66,993,165 (1)	\$53,723,813 (\$0)	\$54,261,496 \$49,975,890 \$67,994,408 (1)	\$54,261,496 \$1	\$50,210,750 \$43,595,322 \$59,313,363 (1)	\$50,210,750 \$6,380,569

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Revenue Requirement Workform May 5, 2020 Page 10 of 18 (RRWF) for 2020 Filers

Tab 1 Schedule 1 Attachment E UPDATED May 5, 2020 Page 10 of 18

Revenue Requirement

Line No.	Particulars	Application		Application Update		Per Board Decision	
1	OM&A Expenses	\$100,254,900		\$100,254,900		\$100,254,900	
2	Amortization/Depreciation	\$64,026,637		\$63,900,232		\$63,900,232	
3	Property Taxes	\$3,458,604		\$3,458,604		\$3,458,604	
5	Income Taxes (Grossed up)	\$7,689,220		\$7,589,845		\$7,589,845	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$30,899,711		\$31,208,964		\$28,879,143	
	Return on Deemed Equity	\$53,723,813		\$54,261,496		\$50,210,750	
8	Service Revenue Requirement						
	(before Revenues)	\$260,052,886		\$260,674,041		\$254,293,473	
9	Revenue Offsets	\$12,456,709		\$12,456,709		\$ -	
10	Base Revenue Requirement	\$247,596,177		\$248,217,332		\$254,293,473	
	(excluding Tranformer Owership Allowance credit adjustment)						
11	Distribution revenue	\$247.596.176		\$248.217.333		\$248.217.333	
12	Other revenue	\$12,456,709		\$12,456,709		\$12,456,709	
13	Total revenue	\$260,052,885		\$260,674,042		\$260,674,042	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	(\$0)	(1)	\$1	(1)	\$6,380,569	(1)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

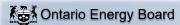
	Application	Application Update	Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$260,052,886	\$260,674,041	\$0	\$254,293,473	(\$1)
Deficiency/(Sufficiency)	\$66,993,165	\$67,994,408	\$0	\$59,313,363	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$247,596,177	\$248,217,332	\$0	\$254,293,473	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$57,014,196	\$57,650,736	\$0	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-Is** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

Customer Class	
Input the name of each customer class.	
D. Market	
Residential	
GS < 50 kW	
GS > 50 to 1,499 kW	
GS > 1,500 to 4,999 kW	
Large Use	
Street Lighting	
Sentinel Lighting	
Unmetered Scattered Load	
Standby Power	

	In	itial Application	
Customer /		kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year		Annual	Annual
327,975 25,987 2,976 68 11 66,484 55 3,321 3		2,353,299,000 696,245,000 2,845,454,000 683,614,000 570,390,000 18,854,000 47,000 11,728,000	6,831,218 1,519,514 1,046,964 52,530 132 7,440

	Application opuate	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual
327,975 25,987 2,976 68 11 66,484 55 3,321 3	2,353,149,000 695,837,000 2,842,881,000 683,532,000 570,390,000 18,854,000 47,000 11,728,000	6,831,256 1,518,291 1,046,964 52,530 132 7,440

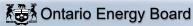
Application Update

	Per Board Decision	
Customer / Connections	kWh	kW/kVA (1)
Test Year average or mid-year	Annual	Annual

Total 7,179,631,000 9,457,798 7,176,418,000 9,456,613 - -

Notes

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)	 s Allocated from vious Study (1)	%	-	Allocated Class enue Requirement	%
From Sheet 10. Load Forecast				(1) (7A)	
Residential	\$ 107,281,788	53.50%	\$	143,774,772	55.16%
GS < 50 kW	\$ 20,646,221	10.30%	\$	26,036,299	9.99%
GS > 50 to 1,499 kW	\$ 48,750,762	24.31%	\$	64,793,622	24.86%
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	13,662,663	5.24%
Large Use	\$ 8,063,832	4.02%	\$	10,534,225	4.04%
Street Lighting	\$ 1,811,439	0.90%	\$	1,182,248	0.45%
Sentinel Lighting	\$ 6,568	0.00%	\$	11,871	0.00%
Unmetered Scattered Load	\$ 547,549	0.27%	\$	662,386	0.25%
Standby Power	\$ 70,655	0.04%	\$	15,956	0.01%
Total	\$ 200,544,060	100.00%	\$	260,674,042	100.00%
		Service Revenue Requirement (from Sheet 9)	\$	260,674,040.72	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	I Forecast (LF) X rrent approved rates	LF X current proved rates X (1+d)	LF X	Proposed Rates	Miscellaneous Revenues		
	(7B)	(7C)		(7D)		(7E)	
1 Residential	\$ 137,867,571	\$ 140,306,530	\$	140,307,705	\$	9,140,043	
GS < 50 kW	\$ 29,313,849	\$ 30,110,803	\$	30,076,336	\$	1,114,200	
GS > 50 to 1,499 kW	\$ 52,676,187	\$ 53,871,028	\$	53,870,770	\$	1,577,574	
GS > 1,500 to 4,999 kW	\$ 13,102,892	\$ 13,051,573	\$	13,051,553	\$	308,178	
Large Use	\$ 8,851,758	\$ 8,785,889	\$	8,785,857	\$	216,847	
Street Lighting	\$ 1,320,744	\$ 1,358,049	\$	1,357,443	\$	58,556	
Sentinel Lighting	\$ 7,691	\$ 7,896	\$	8,500	\$	996	
Unmetered Scattered Load	\$ 667,582	\$ 701,107	\$	701,468	\$	39,823	
Standby Power	\$ 23,827	\$ 24,457	\$	24,458	\$	491	
Total	\$ 243,832,101	\$ 248,217,333	\$	248,184,089	\$	12,456,709	

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.94%	103.95%	85 - 115
QS < 50 kW	118.23%	119.93%	119.80%	80 - 120
3 GS > 50 to 1,499 kW	86.34%	85.58%	85.58%	80 - 120
4 GS > 1,500 to 4,999 kW	98.24%	97.78%	97.78%	80 - 120
Large Use	85.36%	85.46%	85.46%	85 - 115
Street Lighting	80.00%	119.82%	119.77%	80 - 120
Sentinel Lighting	76.00%	74.91%	80.00%	80 - 120
Unmetered Scattered Load	118.72%	111.86%	111.91%	80 - 120
Standby Power	21.03%	156.36%	156.36%	80 - 120
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3				
Į.				
5				
6				
,				
3				

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

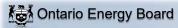
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Policy Range		
	Test Year	Price Cap IR F	Period	, ,
	2021	2022	2023	
Residential	103.95%	103.95%	103.95%	85 - 115
GS < 50 kW	119.80%	119.80%	119.80%	80 - 120
GS > 50 to 1,499 kW	85.58%	85.58%	85.58%	80 - 120
GS > 1,500 to 4,999 kW	97.78%	97.78%	97.78%	80 - 120
Large Use	85.46%	85.46%	85.46%	85 - 115
Street Lighting	119.77%	119.77%	119.77%	80 - 120
Sentinel Lighting	80.00%	80.00%	80.00%	80 - 120
Unmetered Scattered Load	111.91%	111.91%	111.91%	80 - 120
Standby Power	156.36%	156.36%	156.36%	80 - 120
-				

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Residential Class											
Customers		327,975									
kWh		2,353,149,000									
-											
Proposed Residential Class Specific Revenue	\$	140,307,705.00									
Requirement ¹											
-											
Residential Base Rates on Cur	rent Ta	riff									
Monthly Fixed Charge (\$)	\$	35.65									
Distribution Volumetric Rate (\$/kWh)	\$	-									

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue		
Fixed	35.65	327,975	\$ 140,307,705.00	100.00%		
Variable	0	2,353,149,000	\$	0.00%		
TOTAL	=	=	\$ 140,307,705.00	=		

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	
Transition Years ²	0

	T	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	140,307,705.00	35.65	\$ 140,307,705.00
Variable	\$	-	0	\$ -
TOTAL	\$	140,307,705.00	-	\$ 140,307,705.00

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	ı	\$ -	ı	

Checks ³									
Change in Fixed Rate									
Difference Between Revenues @ Proposed Rates									
and Class Specific Revenue Requirement									

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\/\text{year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

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Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:		,	Application Update		Cla	ss Allocated Rever	nues					Dist	ribution Rates			Revenue Reconciliation	on																
	Customer and Lo	oad Forecast			From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design				Fixed / Variable Splits ² Percentage to be entered as a		Percentage to be entered as a		•		Percentage to be entered as a		Percentage to be entered as a		Percentage to be entered as a		Percentage to be entered as a		Percentage to be entered as a		Percentage to be entered as a								
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (\$)	Monthly Ser	vice Charge No. of decimals	Volu	metric Rate No. of decimal	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance																
1 Residential 2 GS + 50 hW 3 GS + 50 hW 4 GS + 1,500 hW 5 LS + 50 hV 1,499 kW 5 Large Use 6 Sheet Lighting 7 Sentinel Lighting 8 Unmeleted Scattered Load 9 Standby Power 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RAWITH RAWITH RAWITH RAWITH RAWITH RAWITH RAWITH RAWITH RAWITH RAWITH RAWITH	327,975 25,987 2,976 68 111 66,484 3	2,353,149,000 695,537,000 2,842,881,000 683,532,000 7570,390,000 18,854,000 11,728,000	6,831,256 1,518,291 1,046,964 52,530 132 7,440	\$ 140,307,735 \$ 30,076,336 \$ 53,870,770 \$ 13,051,553 \$ 8,795,857 \$ 1,357,443 \$ 8,500 \$ 701,468 \$ 24,458	\$ 140,307,705 \$ 7,738,641 \$ 8,420,001 \$ 3,625,114 \$ 2,099,465 \$ 925,460 \$ 4,382 \$ 294,687 \$ 6,928	\$ 22,337,695 \$ 45,450,769 \$ 9,426,438 \$ 6,686,325 \$ 431,983 \$ 4,118 \$ 406,781 \$ 17,529	100.00%, 25.73%, 15.63%, 17.78%, 27.78%, 23.90%, 68.18%, 51.56%, 42.01%, 28.33%	0.00% 74.27% 84.37% 72.22% 76.10% 31.92% 48.44% 57.99% 71.67%	\$ 288,080 \$ 333,286 \$ 265,034	\$35.66 \$24.8: \$235.7; \$4.442.5: \$15.905.0: \$1.6: \$6.6: \$7.3: \$192.4:		\$0.0321 \$6.6955 \$6.4281 \$6.6396 \$8.2236 \$31.1964 \$0.0347	/KWh 4 /KWh /KWh /KWh /KWh /KWh /KWh /KWh /KWh	######################################	\$ 22.336,367.7000 \$46,736,674.5480 \$45,736,674.5480 \$45,759,756,756 \$41,117.9248 \$40,961,962,963 \$17,529.3840 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	######################################																
							Т	otal Transformer Ow	nership Allowance	\$ 886,400			Rates recover re	evenue requirement	Total Distribution R		***************************************																
Notes: 1 Transformer Ownership Allowance is	entered as a positive a	amount, and only fo	r those classes to wh	nich it applies.									TALOS TODOVOI TO	oronae roquitement	Difference % Difference		-\$ 33,245.70 -0.013%																

Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

Summary of Proposed Changes

ſ			Cost of	Cost of Capital		Rate Base and Capital Expenditures			Operating Expenses			Revenue Requirement			
F	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues			
		Original Application	\$ 84,623,525	5.96%	\$1,419,762,511	\$ 1,414,368,998	\$ 106,077,675	\$ 64,026,637	\$ 7,689,220	\$ 100,254,900	\$ 260,052,886	\$ 12,456,709	\$ 247,596,177	\$ 66,993,165	
1		Updated for 2019 Actuals Change	\$ 85,470,460 \$ 846,936		\$1,433,971,887 \$14,209,377	\$1,427,324,219 \$12,955,221					\$ 260,674,041 \$ 621,155			\$ 67,994,408 \$ 1,001,243	



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UPDATED COST ALLOCATION

2

1

1. INTRODUCTION

In accordance with section 2.7 of the Chapter 2 Filing Requirements for Electricity Distribution

- 5 Rate Applications, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing
- 6 Requirements"), this Schedule includes information on cost allocation study requirements,
- 7 class revenue requirements, and revenue-to-cost ratios.

8

2. COST ALLOCATION STUDY

10 Hydro Ottawa engaged Elenchus Research Associates ("Elenchus") to assist in completing a

11 Cost Allocation Study for the Test Year 2021 using the OEB-approved model. The updated

model incorporates impacts of 2019 actuals, including fixed asset, load, and demand data.

Operations, Maintenance and Administration costs and weighting factors have not been

⁴ updated. The completed updated model is appended to this Schedule as UPDATED

15 Attachment 7-1-1(A): OEB Workform - 2021 Cost Allocation Model. Elenchus has also provided

16 a report which describes the methodology and presents the original results of this model. The

17 report is included as Attachment 7-1-1(B): Hydro Ottawa Cost Allocation Report. It has not

been updated to include the impacts of 2019 actuals. In addition, Hydro Ottawa has included

19 PDF copies of the required pages from the completed updated version of the OEB Cost

20 Allocation Model.

2122

3. COST ALLOCATION FACTORS

23 3.1. WEIGHTING FACTORS

- 24 While most allocation factors are based on Test Year data, the allocation factors for secondary
- 25 service, meter reading, and meter capital are based on historical costs by customer class up to
- the end of fiscal year 2018, which at the time of Hydro Ottawa's original Application was the
- 27 utility's last audited year. 2019 is Hydro Ottawa's last audited year as of the filing of this
- 28 updated package of information for the Application.



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- For a detailed description of the methodology for development of allocation and load factors,
- 2 please refer to Attachment 7-1-1(B): Hydro Ottawa Cost Allocation Report. All allocation and
- 3 load factors, updated for 2019 actual results, have been incorporated into the OEB-approved
- 4 Cost Allocation Model included in this Application as **UPDATED** Attachment 7-1-1(A): OEB
- 5 Workform 2021 Cost Allocation Model.

6 7

3.2. LOAD PROFILES

- 8 Hydro Ottawa was unable to obtain the hourly load profile data required to derive updated load
- 9 profiles for this Application. As a result, demand data figures for the 2021 Cost Allocation
- 10 Model have been calculated based on hourly demand figures used in previous rate
- 11 applications, adjusted to the 2021 monthly load profile and customer count forecasts. Please
- refer to Attachment 7-1-1(B): Hydro Ottawa Cost Allocation Report and UPDATED Attachment
- 13 7-1-1(C): 2021 Demand Factors Calculation for a detailed description and example of the
- 14 calculation of load profile and demand data used in the Cost Allocation Model.

15

- Hydro Ottawa confirms that it has a plan in place to develop updated hourly load profiles to
- 17 comply with the current Filing Requirements.

18

19

4. COST ALLOCATION ADJUSTMENTS

- 20 The Cost Allocation Model indicated that four rate classes require adjustments to bring them
- 21 within the OEB- approved ranges: General Service ("GS") <50 kW and Street Lighting were
- 22 above the upper limit, while Large Use and Sentinel Lighting were below the lower limit.

- 24 Hydro Ottawa proposes to adjust the revenue requirements to bring three of the four rate
- 25 classes into the OEB-approved ranges in 2021. Hydro Ottawa first reallocated revenue
- 26 requirement within the affected rates classes. The remaining revenue shortfall resulting from
- 27 these adjustments was allocated to the GS 50 to 1,499 kW, GS 1,500 to 4,999 kW, and Large
- 28 Use customer classes that have revenue-to-cost ratios below 100.



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It is proposed to bring the Sentinel Lighting rate class up to the lower bound over a five-year period, in order to mitigate the large bill impact of an immediate adjustment. Required adjustments to Sentinel Lighting in the 2022-2025 Test Years are offset against another unmetered customer class, Street Lighting. The impact on the Street Lighting class will be minimal, at less than \$600 annually.

6

7 The 2021 adjustments are fully described in Attachment 7-1-1(B): Hydro Ottawa Cost 8 Allocation Report and evidenced within Sheet 11: Cost_Allocation in the following workforms:

9

11

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1314

15 16

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- **UPDATED** Attachment 6-1-1(A): OEB Workform 2021 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(B): OEB Workform 2022 Revenue Requirement

 Workform
 - UPDATED Attachment 6-1-1(C): OEB Workform 2023 Revenue Requirement

 Workform
 - UPDATED Attachment 6-1-1(D): OEB Workform 2024 Revenue Requirement
 Workform
 - UPDATED Attachment 6-1-1(E): OEB Workform 2025 Revenue Requirement

 Workform

- 21 The updated version of Table 1 below provides the proposed revenue-to-cost ratios for 2021.
- 22 Proposed ratios include adjustments to bring customer classes into their policy ranges.

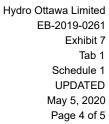




Table 1 – AS ORIGINALLY SUBMITTED – Current and Proposed Revenue-to-Cost Ratios

	% Revenue	Requirement	Reven	ue-to-Cos	t Ratios	Policy
Rate Class	Last Study (2020)	This Study ¹	2020	Status Quo	Proposed	Policy Range
Residential	53.5%	55.1%	104.29%	103.98%	103.99%	85-115
GS < 50 kW	10.3%	10.0%	118.23%	123.53%	119.77%	80-120
GS > 50 to 1,499 kW	24.3%	24.9%	86.34%	85.07%	85.57%	80-120
GS > 1,500 to 4,999 kW	6.7%	5.3%	98.24%	97.07%	97.62%	80-120
Large Use	4.0%	4.0%	85.36%	79.48%	85.50%	85-115
Street Lighting	0.9%	0.5%	80.00%	126.22%	120.00%	80-120
Sentinel Lighting	0.0%	0.0%	76.00%	54.29%	59.75%	80-120
Unmetered Scattered Load	0.3%	0.3%	118.72%	113.31%	113.25%	80-120
Standby Power	0.0%	0.0%	21.03%	155.69%	155.69%	

3 Table 1 – UPDATED FOR 2019 ACTUALS – Current and Proposed Revenue-to-Cost Ratios

	% Revenue F	Requirement	Reven	ue-to-Cos	t Ratios	Policy
Rate Class	Last Study (2020)	This Study ²	2020	Status Quo	Proposed	Range
Residential	53.5%	55.2%	104.29%	103.93%	103.95%	85-115
GS < 50 kW	10.3%	10.0%	118.23%	123.49%	119.93%	80-120
GS > 50 to 1,499 kW	24.3%	24.9%	86.34%	85.11%	85.57%	80-120
GS > 1,500 to 4,999 kW	6.7%	5.2%	98.24%	97.25%	97.77%	80-120
Large Use	4.0%	4.0%	85.36%	79.65%	85.45%	85-115
Street Lighting	0.9%	0.5%	80.00%	125.84%	119.96%	80-120
Sentinel Lighting	0.0%	0.0%	76.00%	54.14%	59.63%	80-120
Unmetered Scattered Load	0.3%	0.3%	118.72%	112.76%	111.92%	80-120
Standby Power	0.0%	0.0%	21.03%	155.34%	156.34%	

4

⁵ ¹ Totals may not sum due to rounding.

^{6 &}lt;sup>2</sup> Totals may not sum due to rounding.



Hydro Ottawa Limited
EB-2019-0261
Exhibit 7
Tab 1
Schedule 1
UPDATED
May 5, 2020
Page 5 of 5

1 5. STANDBY RATES

2 5.1. LOAD DISPLACEMENT STANDBY

- 3 Standby rates are being examined as part of the OEB's consultation on Commercial and
- 4 Industrial Rate Design ("C&I Rate Design"), with the potential implementation of a Capacity
- 5 Reserve Charge to replace Standby Charges.³ As a result, Hydro Ottawa is not seeking
- 6 Standby Rates on a final basis as part of this Application.

7

- 8 Once a final OEB report and policy change related to C&I Rate Design is released and
- 9 electricity distributors understand the resulting impact on Standby Charges, Hydro Ottawa will
- 10 determine next steps in requesting Standby rates on a final basis.

11

12 5.2. RELIABILITY STANDBY

- 13 Upon issuance of the final report for C&I Rate Design, Hydro Ottawa will review the treatment of
- 14 Standby Rates relating to reliability. Seeing as Hydro Ottawa's intended rate design was linked
- 15 to the current Standby rate design for load displacement (as initially proposed in the utility's
- 16 2017 rate adjustment application⁴), Hydro Ottawa believes it would be prudent at this time for
- 17 the policy change related to C&I Rate Design to be completed prior to the utility seeking to
- 18 introduce new rates to customers that may be addressed in that consultation generically.

19

- 20 If Hydro Ottawa is unable to recover the costs associated with additional reliability as a result of
- 21 the outcomes emerging from the OEB's consultation on C&I Rate Design, a separate
- 22 application relating to Standby Reliability charges will be filed.

_

²³ Ontario Energy Board, *Rate Design for Commercial and Industrial Electricity Customers*, EB-2015-0043.

²⁴ Hydro Ottawa Limited, 2017 Electricity Distribution Rate Application, EB-2016-0084 (August 15, 2016).



Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 1 of 14

2020 Cost Allocation Model

Sheet I1 Utility Information Sheet

Phone Number: 613-738-5499 ext. 7472

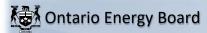
E-Mail Address: RegulatoryAffairs@HydroOttawa.com

Version 3.7

Name of LDC:	Hydro Ottawa Limited
Application EB Number:	EB-2019-0261
Date of Application:	Original
Contact Information:	
Name:	Gregory Van Dusen
Title:	Director, Regulatory Affairs

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EB-2019-0261

Sheet I2 Class Selection -**UPDATED 2021-2025 Custom IR -:**

Instructions:
Step 1: Please input identification of this Run in C15 and C17

Step 2: Please input your proposed rate classes.

Step 3: After all classes have been entered, Click the "Update" button in cell E41

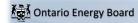
Please input the date on which this Run of the model was prepared or submitted

Please provide summary identification of this Run

UPDATED 2021-2025 Custom IR - 2021 Model

		Utility's Class Definition	Current
1	Residential		YES
2	GS <50		YES
3	GS>50-Regular	GS 50 to 1,499 kW	YES
4	GS> 50-TOU	GS 1,500 to 4,999 kW	YES
5	GS >50-Intermediate		YES
6	Large Use >5MW	Large Use	YES
7	Street Light		YES
8	Sentinel		YES
9	Unmetered Scattered Load		YES
10	Embedded Distributor		YES
11	Back-up/Standby Power	Standby Power GS 50 to 1,499 kW	YES
12	Rate Class 1	Standby Power GS 1,500 to 4,999 kW	YES
13	Rate class 2	Standby Power Large Use	YES
14	Rate class 3		YES
15	Rate class 4		YES
16	Rate class 5		YES
17	Rate class 6		YES
18	Rate class 7		YES
19	Rate class 8		YES
20	Rate class 9		YES

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 2 of 14



EB-2019-0261

Sheet I6.1 Revenue Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

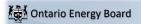
Total kWhs from Load Forecast 7,063,482,000

Total kWs from Load Forecast 9,454,357

Deficiency/sufficiency (RRWF 8. cell F51)

Miscellaneous Revenue (RRWF 5. cell F48) 11,013,377

		ı													
	ID	Total	1 Residential	2 GS <50	3 GS 50 to 1,499 kW	4 GS 1,500 to 4,999 kW	5 GS >50- Intermediate	6 Large Use	7 Street Light	Sentinel	9 Unmetered Scattered Load	10 Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	13 Standby Power Large Use
Billing Data															
Forecast kWh	CEN	7,063,482,000	2,252,937,000	699,871,000	2,817,707,000	682,919,000		574,292,000	22,107,000	47,000	13,602,000				
Forecast kW	CDEM	9,454,357			6,815,129	1,517,165		1,052,901	61,590	132				7,440	
Forecast kW, included in CDEM, of customers receiving line transformer allowance		2,346,299			762,547	882,208	-	701,543							
Optional - Forecast kWh, included in CEN, from customers that receive a line transformation allowance on a kWh basis. In most cases this will not be applicable and will be left blank.															
KWh excluding KWh from Wholesale Market Participants	CEN EWMP	7,063,482,000	2,252,937,000	699,871,000	2,817,707,000	682,919,000	-	574,292,000	22,107,000	47,000	13,602,000	-	-	-	
Existing Monthly Charge			\$27.79	\$19.32	\$200.00	\$4,193.93		\$15,231.32	\$0.91	\$3.17	\$5.09			\$145.13	
Existing Distribution kWh Rate Existing Distribution kW Rate			\$0.0000	\$0.0250	\$4.8760	\$4,4562		\$4.2422	\$6.3414	\$14.8502	\$0.0242			\$1.78	
Existing TOA Rate Additional Charges					\$0.45	\$0.45		\$0.45	φυ.σ 4 14	ψ14.0302				\$1.70	
Distribution Revenue from Rates		\$187,888,164	\$105,495,064	\$23,383,424	\$40,718,569	\$10,183,038	\$0	\$6,477,151	\$1,076,408	\$4,052	\$532,015	\$0	\$0		\$0
Transformer Ownership Allowance Net Class Revenue	CREV	\$1,055,834 \$186.832,330	\$0 \$105.495.064	\$0 \$23,383,424	\$343,146 \$40.375.423	\$396,994 \$9.786.044	\$0 \$0	\$315,694 \$6,161,456	\$0 \$1.076.408	\$0 \$4.052	\$0 \$532.015	\$0 \$0	\$0 \$0	\$0 \$18.443	\$0 \$0
	5.1LV	ψ.00,002,000	ψ.00,400,00 4	\$25,000,424	ψ.ο,οτο, 4 20	\$3,700,044	ψÜ	ψο, 101, 400	ψ.,στο, -1 σο	ψ+,002	\$002,010	φυ	\$ 0	\$10,440	40
															<u> </u>



Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 4 of 14

EB-2019-0261

Sheet I6.2 Customer Data Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

			1	2	3	4	5	6	7	8	9	10	11	12	13
	ID	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
Billing Data															
Bad Debt 3 Year Historical Average	BDHA	\$1,753,222	\$1,348,520	\$158,923	\$163,934	\$81,844	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Late Payment 3 Year Historical Average	LPHA	\$1,045,323	\$819,471	\$116,497	\$96,341	\$12,457		\$516	\$42						
Number of Bills	CNB	4,140,228	3,796,152	304,692	37,440	816		132	180	660	120			36	
Number of Devices	CDEV								62,806	55	3,321				
Number of Connections (Unmetered)	CCON	7,563							4,187	55	3,321				
Total Number of Customers	CCA	345,019	316,346	25,391	3,120	68		11	15	55	10			3	
Bulk Customer Base	CCB	345,019	316,346	25,391	3,120	68		11	15	55	10			3	
Primary Customer Base	CCP	348,563	316,346	25,391	3,120	68		11	3,559	55	10			3	
Line Transformer Customer Base	CCLT	348,403	316,346	25,384	3,008	36		5	3,559	55	10				
Secondary Customer Base	ccs	307,042	286,894	18,091	1,903	65		9	15	55	10				
Weighted - Services	cwcs	350,585	286,894	36,182	19,032	650	-	264	4,187	55	3,321	-	-	-	-
Weighted Meter -Capital	CWMC	70,140,145	53,529,701	9,305,572	6,585,601	585,159	-	113,480	-	-	-	-	-	20,633	-
Weighted Meter Reading	CWMR	373,697	316,346	25,391	29,969	1,671		270	-		-	-	-	49	-
Weighted Bills	CWNB	4,235,186	3,796,152	320,297	113,481	3,242	-	521	746	475	130	-	•	141	-

Bad Debt Data

Historic Year:	2015	1,763,429	1,144,174	162,717	304,510	152,027								
Historic Year:	2016	2,149,294	1,809,123	209,194	87,362	43,615								
Historic Year:	2017	1,346,942	1,092,264	104,859	99,929	49,890								
Three-year average		1,753,222	1,348,520	158,923	163,934	81,844	-	-	-	-	-	-	-	-

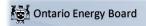
Street Lighting Adjustment Factors

NCP Test Results 4 NCP

	Primary As	set Data	Line Transformer Asset Data			
	Customers/		Customers/			
Class	Devices	4 NCP	Devices	4 NCP		
Residential	316,346	2,133,287	316,346	2,133,287		
Street Light	62,806	23,998	62,806	23,998		

Street Lighting Adj	ustment Factors
Primary	17.6488
Line Transformer	17.6488

Schedule 1 Attachment A UPDATED May 5, 2020 Page 5 of 14



2020 Cost Allocation Model

EB-2019-0261

Sheet IS Demand Data Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

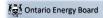
This is an input sheet for demand allocators.

CP TEST RESULTS	12 CP
NCP TEST RESULTS	4 NCP

Co-incident Peak	Indicator
1 CP	CP 1
4 CP	CP 4
12 CP	CP 12

Non-co-incident Peak	Indicator
1 NCP	NCP 1
4 NCP	NCP 4
12 NCP	NCP 12

			1	1	, ,		1	,	,	,	, ,		· T	ī	,
			1	2	3	4	5	6	7	8	9	10	11	12	13
Customer Classes		Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
		СР							Check 4CP and	Check 4CP and	Check 4CP and				
		Sanity Check	Pass	Check 4CP	Pass	Pass	Pass	Pass	12CP	12CP	12CP	Pass	Pass	Pass	Pass
CO-INCIDENT	DΕΔΚ	· · · · · · · · · · · · · · · · · · ·													
OO-INGIDENT	TEAK	-													
1 CP															
Transformation CP	TCP1	1,277,019	498,428	117,727	464,152	110,159		84,759	-	-	1,383			412	
Bulk Delivery CP	BCP1	1,277,019	498,428	117,727	464,152	110,159		84,759	-	-	1,383			412	
Total Sytem CP	DCP1	1,277,019	498,428	117,727	464,152	110,159		84,759	-	-	1,383			412	
	·					·	·		·	·			•		
4 CP								•					1		
Transformation CP	TCP4 BCP4	4,950,687	1,917,197	489,889	1,842,290	384,636		304,601	5,808	8				412	
Bulk Delivery CP	DCP4	4,950,687 4,950,687	1,917,197 1,917,197	489,889 489,889	1,842,290 1,842,290	384,636 384,636		304,601	5,808 5,808	8				412 412	
Total Sytem CP	DCP4	4,950,087	1,917,197	489,889	1,842,290	384,030		304,601	5,808	8	5,845			412	
12 CP															
Transformation CP	TCP12	13,367,670	4,905,357	1,316,881	5,119,659	1,090,578		884,827	31,331	53	18,342			642	
Bulk Delivery CP	BCP12	13,367,670	4,905,357	1,316,881	5,119,659	1,090,578		884.827	31,331	53				642	
Total Sytem CP	DCP12	13,367,670	4,905,357	1,316,881	5,119,659	1,090,578		884.827	31,331	53				642	
,							•	•	•	•			•	•	
NON CO_INCIDE	NT PEAK														
		NCP													
		Sanity Check	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
1 NCP															
Classification NCP from															
Load Data Provider	DNCP1 PNCP1	1,449,701	575,660	145,496	498,153	125,654		95,229	6,444 6.444	15				1,152	
Primary NCP Line Transformer NCP	LTNCP1	1,449,701 1,263,629	575,660 575,660	145,496 145,496	498,153 433,393	125,654 55,287		95,229 44,757	6,444	15 15				1,152 680	
Secondary NCP	SNCP1	978.589	575,660	145,496	249.078	33,287		44,757	6,444	15				080	
Secondary Nor	SINCE	370,003	373,000	145,450	249,070	-		-	0,444	13	1,090			-	
4 NCP															
Classification NCP from															
Load Data Provider	DNCP4	5,555,227	2,133,287	561,644	1,967,131	486,541		374,664	23,998	58	7,492			412	
Primary NCP	PNCP4	5,555,227	2,133,287	561,644	1,967,131	486,541		374,664	23,998	58				412	
Line Transformer NCP	LTNCP4	4,828,296	2,133,287	561,644	1,711,403	214,078		176,092	23,998	58				243	
Secondary NCP	SNCP4	3,710,045	2,133,287	561,644	983,566	-		-	23,998	58	7,492			-	
40.1105															
12 NCP Classification NCP from															
Load Data Provider	DNCP12	14,941,590	5,508,979	1,531,293	5,508,529	1,295,932		1,012,783	62,128	142	21,161			642	
Primary NCP	PNCP12	14,941,590	5,508,979	1,531,293	5,508,529	1,295,932		1,012,783	62,128	142				642	
Line Transformer NCP	LTNCP12	12.962.722	5,508,979	1,531,293	4.792.421	570.210		476.008	62,128	142				379	
Secondary NCP	SNCP12	9,877,969	5,508,979	1,531,293	2,754,265	370,210		470,000	62,128	142	21,161			379	
SSSSINGLY 1101		2,2,000	0,000,313	1,001,200	_,,_00				02,120	142	21,101				

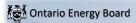


EB-2019-02b1 Sheet O1 Revenue to Cost Summary Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

Class Revenue, Cost Analysis, and Return on Rate Base

			1	2	3	4	5	6	7	8	9	10	11	12	13
Rate Base Assets		Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
crev mi	Distribution Revenue at Existing Rates Miscellaneous Revenue (mi)	\$186,832,330 \$11,013,377 Misc	\$105,495,064 \$8,081,006 ellaneous Revenu	\$23,383,424 \$985,100 le Input equals Ou	\$40,375,423 \$1,394,784	\$9,786,044 \$272,470	\$0 \$0	\$6,161,456 \$191,721	\$1,076,408 \$51,772	\$4,052 \$881	\$532,015 \$35,208	\$0 \$0	\$0 \$0	\$18,443 \$434	\$0 \$0
	Total Revenue at Existing Rates	\$197,845,707	\$113,576,070	\$24,368,524	\$41,770,207	\$10,058,514	\$0	\$6,353,178	\$1,128,180	\$4,933	\$567,223	\$0	\$0	\$18,877	\$0
	Factor required to recover deficiency (1 + D)	1.1006													
	Distribution Revenue at Status Quo Rates Miscellaneous Revenue (mi)	\$205,624,238 \$11,013,377	\$116,105,934 \$8,081,006	\$25,735,368 \$985,100	\$44,436,450 \$1,394,784	\$10,770,340 \$272,470	\$0 \$0	\$6,781,186 \$191,721	\$1,184,675 \$51,772	\$4,460 \$881	\$585,526 \$35,208	\$0 \$0	\$0 \$0	\$20,298 \$434	\$0 \$0
	Total Revenue at Status Quo Rates	\$216,637,615	\$124,186,940	\$26,720,468	\$45,831,234	\$11,042,811	\$0	\$6,972,907	\$1,236,447	\$5,341	\$620,734	\$0	\$0	\$20,732	\$0
di cu ad dep INPUT INT	Expenses Distribution Costs (d) Customer Related Costs (cu) General and Administration (ad) General and Administration (de) Plas. (NPUT) Inferest Total Expenses	\$30,492,162 \$15,607,578 \$47,280,740 \$52,332,722 \$2,224,065 \$24,442,421 \$172,379,687	\$15,380,619 \$13,424,138 \$29,029,798 \$26,921,617 \$1,096,910 \$12,055,016 \$97,908,097	\$3,064,347 \$1,348,054 \$4,549,882 \$5,450,737 \$226,695 \$2,491,377 \$17,131,093	\$8,538,720 \$714,847 \$9,831,560 \$14,278,235 \$641,052 \$7,045,146 \$41,049,560	\$1,823,602 \$103,950 \$2,051,190 \$2,980,358 \$135,586 \$1,490,083 \$8,584,769	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,417,832 \$5,875 \$1,525,030 \$2,305,191 \$105,837 \$1,163,143 \$6,522,908	\$170,160 \$5,269 \$185,435 \$252,748 \$11,480 \$126,170 \$751,262	\$1,361 \$1,248 \$2,608 \$1,912 \$86 \$950 \$8,166	\$94,003 \$3,010 \$102,474 \$138,062 \$6,294 \$69,171 \$413,014	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$1,519 \$1,186 \$2,762 \$3,861 \$124 \$1,366 \$10,818	\$0 \$0 \$0 \$0 \$0 \$0 \$0
	B1 - 4 40 41														
	Direct Allocation	\$542,177	\$17,751	\$50,943	\$197,904	\$104,777	\$0	\$151,436	\$5,609	\$0	\$13,759	\$0	\$0	\$0	\$0
NI	Allocated Net Income (NI)	\$43,715,750	\$21,560,632	\$4,455,876	\$12,600,382	\$2,665,043	\$0	\$2,080,304	\$225,657	\$1,699	\$123,714	\$0	\$0	\$2,443	\$0
	Revenue Requirement (includes NI)	\$216,637,615	\$119,486,480	\$21,637,911	\$53.847.846	\$11.354.589	\$0	\$8,754,647	\$982.528	\$9.866	\$550.487	\$0	\$0	\$13.261	\$0
	,		uirement Input ed		**********	***,==*,===		40,101,01	*****	******	******	**	-	******	**
dp	Rate Base Calculation Net Assets Distribution Plant - Gross	\$1,367,897,171	\$690.724.182	\$140.017.658	\$383.193.417	\$80.230.204	\$0	\$62.443.304	\$7,181,982	\$55.611	\$3.970.671	\$0	so	\$80.142	\$0
gp	General Plant - Gross	\$279,322,658	\$140,054,317	\$28,441,618	\$78,981,502	\$16,571,952	\$0	\$12,921,438	\$1,495,991	\$11,623	\$829,070	\$0	\$0	\$15,146	\$0
accum dep	Accumulated Depreciation	(\$302,533,807)	(\$155,715,924)	(\$31,550,755)	(\$82,476,855)	(\$17,202,097)	\$0	(\$13,302,401)	(\$1,457,240)	(\$11,009)	(\$794,990)	\$0	\$0	(\$22,537)	\$0
co	Capital Contribution Total Net Plant	(\$198,820,308) \$1,145,865,715	(\$108,395,685) \$566,666,890	(\$20,131,761) \$116,776,761	(\$50,437,526) \$329,260,538	(\$10,048,336) \$69,551,723	\$0 \$0	(\$7,780,642) \$54,281,700	(\$1,269,846) \$5,950,888	(\$11,175) \$45,050	(\$736,306) \$3,268,445	\$0 \$0	\$0 \$0	(\$9,031) \$63,720	\$0 \$0
	Directly Allocated Net Fixed Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
COP	Cost of Power (COP)	\$1,037,683,909	\$332,373,005	\$102,759,737	\$413,025,368	\$100,103,691	\$0	\$84,180,919	\$3,240,490	\$6,889	\$1,993,810	\$0	\$0	\$0	\$0
	OM&A Expenses	\$93,380,480 \$542,177	\$57,834,554	\$8,962,284	\$19,085,127	\$3,978,742	\$0 \$0	\$2,948,737	\$360,864	\$5,218	\$199,487	\$0 \$0	\$0 \$0	\$5,467 \$0	\$0 \$0
	Directly Allocated Expenses Subtotal		\$17,751	\$50,943	\$197,904	\$104,777		\$151,436	\$5,609	\$0	\$13,759	\$0 \$0		\$5,467	
	Subtotal	\$1,131,606,566	\$390,225,310	\$111,772,963	\$432,308,400	\$104,187,210	\$0	\$87,281,092	\$3,606,963	\$12,107	\$2,207,055	30	\$0	\$5,467	\$0
	Working Capital	\$84,870,492	\$29,266,898	\$8,382,972	\$32,423,130	\$7,814,041	\$0	\$6,546,082	\$270,522	\$908	\$165,529	\$0	\$0	\$410	\$0
	Total Rate Base	\$1,230,736,207	\$595,933,788	\$125,159,733	\$361,683,668	\$77,365,764	\$0	\$60,827,781	\$6,221,410	\$45,958	\$3,433,975	\$0	\$0	\$64,130	\$0
		Rate B	ase Input equals (Output											
	Equity Component of Rate Base	\$492,294,483	\$238,373,515	\$50,063,893	\$144,673,467	\$30,946,305	\$0	\$24,331,113	\$2,488,564	\$18,383	\$1,373,590	\$0	\$0	\$25,652	\$0
	Net Income on Allocated Assets	\$43,715,750	\$26,261,092	\$9,538,433	\$4,583,770	\$2,353,265	\$0	\$298,563	\$479,576	(\$2,825)	\$193,962	\$0	\$0	\$9.914	\$0
											-			,	
	Net Income on Direct Allocation Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Net Income	\$43,715,750	\$26,261,092	\$9,538,433	\$4,583,770	\$2,353,265	\$0	\$298,563	\$479,576	(\$2,825)	\$193,962	\$0	\$0	\$9,914	\$0
	RATIOS ANALYSIS														
	REVENUE TO EXPENSES STATUS QUO%	100.00%	103.93%	123.49%	85.11%	97.25%	0.00%	79.65%	125.84%	54.14%	112.76%	0.00%	0.00%	156.34%	0.00%
	EXISTING REVENUE MINUS ALLOCATED COSTS	(\$18,791,908)	(\$5,910,410)	\$2,730,613	(\$12,077,639)	(\$1,296,075)	\$0	(\$2,401,470)	\$145,652	(\$4,932)	\$16,737	\$0	\$0	\$5,616	\$0
		Deficie	ncy Input equals	Output	l										
	STATUS QUO REVENUE MINUS ALLOCATED COSTS	(\$0)	\$4,700,460	\$5,082,557	(\$8,016,612)	(\$311,778)	\$0	(\$1,781,740)	\$253,919	(\$4,525)	\$70,248	\$0	\$0	\$7,471	\$0
	RETURN ON EQUITY COMPONENT OF RATE BASE	8.88%	11.02%	19.05%	3.17%	7.60%	0.00%	1.23%	19.27%	-15.37%	14.12%	0.00%	0.00%	38.65%	0.00%

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Sheet 02 Monthly Fixed Charge Min. & Max. Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

Output sheet showing minimum and maximum level for Monthly Fixed Charge

	1	2	3	4	5	6	7	8	9	10	11	12	13
Summary	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	
Customer Unit Cost per month - Avoided Cost	\$4.23	\$6.25	\$26.46	\$67.13	0	\$13.28	\$0.07	\$1.85	\$0.05	0	0	\$84.69	0
Customer Unit Cost per month - Directly Related	\$7.68	\$10.73	\$44.75	\$117.09	0	\$70.72	\$0.18	\$3.77	\$0.13	0	0	\$124.86	0
Customer Unit Cost per month - Minimum System with PLCC Adjustment	\$16.71	\$21.15	\$78.85	\$402.12	0	\$516.80	\$8.19	\$14.67	\$8.70	0	0	\$89.34	0
Existing Approved Fixed Charge	\$27.79	\$19.32	\$200.00	\$4,193.93	\$0.00	\$15,231.32	\$0.91	\$3.17	\$5.09	\$0.00	\$0.00	\$145.13	\$0.00

		1	2	3	4	5	6	7	8	9	10	11	12	13
Information to be Used to Allocate PILs, ROD, ROE and A&G	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
General Plant - Gross Assets General Plant - Accumulated Depreciation	\$279,322,658 (\$93,457,347)	\$140,054,317 (\$46,860,161)	\$28,441,618 (\$9,516,157)	\$78,981,502 (\$26,426,075)	\$16,571,952 (\$5,544,737)	\$0 \$0	\$12,921,438 (\$4,323,327)	\$1,495,991 (\$500,537)	\$11,623 (\$3,889)	\$829,070 (\$277,395)	\$0 \$0	\$0 \$0	\$15,146 (\$5,068)	\$0 \$0
General Plant - Net Fixed Assets	\$185,865,311	\$93,194,155	\$18,925,462	\$52,555,427	\$11,027,215	\$0	\$8,598,111	\$995,454	\$7,734	\$551,675	\$0	\$0	\$10,078	\$0
General Plant - Depreciation	\$16,520,731	\$8,283,609	\$1,682,199	\$4,671,415	\$980,160	\$0	\$764,247	\$88,481	\$687	\$49,036	\$0	\$0	\$896	\$0
Total Net Fixed Assets Excluding General Plant	\$960,000,403	\$473,472,735	\$97,851,299	\$276,705,111	\$58,524,508	\$0	\$45,683,589	\$4,955,434	\$37,316	\$2,716,770	\$0	\$0	\$53,642	\$0
Total Administration and General Expense	\$47,280,740	\$29,029,798	\$4,549,882	\$9,831,560	\$2,051,190	\$0	\$1,525,030	\$185,435	\$2,608	\$102,474	\$0	\$0	\$2,762	\$0
Total O&M	\$45,490,016	\$28 423 779	\$4 354 042	\$9 131 178	\$1 902 058	\$0	\$1 404 877	\$173 109	\$2 575	\$95 729	\$0	\$0	\$2,669	\$0

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Scenario 1

Accounts included in Avoided Costs Plus General Administration Allocation

		Г	1 1	2	3	4	5	6	7	8	9	10	11	12	13
USoA Account #	Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby	Standby Power GS 1,500 to 4,999 kW	Standby Dawer
1860	<u>Distribution Plant</u> Meters	\$54,968,547	\$41,951,009	\$7,292,739	\$5,161,109	\$458,587	\$0	\$88,934	\$0	\$0	\$0	\$0	\$0	\$16,170	\$0
	Accumulated Amortizatior Accum. Amortization of Electric Utility Plant - Meters only Meter Net Fixed Assets	(\$28,716,207) \$26,252,340	(\$21,915,694) \$20,035,315	(\$3,809,811) \$3,482,927	(\$2,696,223) \$2,464,886	(\$239,571) \$219,016	\$0 \$0	(\$46,460) \$42,474	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		(\$8,447) \$7,722	\$0 \$0
4082	Misc Revenue Retail Services Revenues	(6400,000)	(000,004)	(045.440)	(\$20,000)	(\$6,858)		(65 000)	(\$622)	(60)	(\$344)	***	eo.	(60)	**
4082 4084	Service Transaction Requests (STR) Revenues	(\$160,963) (\$4,152)	(\$99,691) (\$2,571)	(\$15,449) (\$398)	(\$32,898) (\$848)	(\$6,858) (\$177)	\$0 \$0	(\$5,083) (\$131)	(\$622) (\$16)	(\$9) (\$0)	(\$344)	\$0 \$0	\$0 \$0	(\$9) (\$0)	
4090	Electric Services Incidental to Energy Sales	(\$278,736)	(\$172,633)	(\$26,752)	(\$56,968)	(\$11,876)	\$0	(\$8,802)	(\$1,077)	(\$16)		\$0	\$0	(\$16)	\$0
4220	Other Electric Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0
4225	Late Payment Charges	(\$1,000,000)	(\$783,940)	(\$111,445)	(\$92,163)	(\$11,917)	\$0	(\$494)	(\$40)	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	(\$1,443,850)	(\$1,058,836)	(\$154,044)	(\$182,878)	(\$30,829)	\$0	(\$14,510)	(\$1,755)	(\$25)	(\$948)	\$0	\$0	(\$26)	\$0
5065	Operation Meter Expense	\$881.674	\$672,878	\$116,973	\$82,782	\$7,356	\$0	\$1,426	\$0	\$0	\$0	\$0	\$0	\$259	\$0
5070	Customer Premises - Operation Labour	\$270,095	\$242,391	\$19,455	\$2,391	\$52	\$0	\$8	\$3,208	\$42	\$2,545	\$0		\$2	\$0
5075	Customer Premises - Materials and Expenses	\$14,371	\$12,897	\$1,035	\$127	\$3	\$0	\$0	\$171	\$2	\$135	\$0	\$0	\$0	\$0
	Sub-total	\$1,166,140	\$928,166	\$137,463	\$85,300	\$7,410	\$0	\$1,435	\$3,379	\$44	\$2,680	\$0	\$0	\$262	\$0
5175	Maintenance Maintenance of Meters	\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0	\$2,799	\$0	\$0	\$0	\$0	\$0	\$509	\$0
5040	Billing and Collection Meter Reading Expense	\$444,603	\$376,370	\$30,209	\$35,656	\$1,988	\$0	\$322	\$0	\$0	\$0	\$0	\$0	\$58	***
5310 5315	Customer Billing	\$8,846,969	\$7,929,862	\$669,076	\$237,052	\$6,773	\$0 \$0	\$322 \$1,088	\$1,559	\$993	\$0 \$272	\$0 \$0		\$294	\$0 \$0
5320	Collecting	\$1,879,280	\$1,684,468	\$142,126	\$50,355	\$1,439	\$0	\$231	\$331	\$211	\$58	\$0	\$0	\$63	\$0
5325	Collecting- Cash Over and Short	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0
5330	Collection Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	\$11,170,852	\$9,990,700	\$841,410	\$323,063	\$10,199	\$0	\$1,641	\$1,890	\$1,204	\$329	\$0	\$0	\$415	\$0
	Total Operation, Maintenance and Billing	\$14,067,270	\$12,239,383	\$1,208,431	\$570,822	\$32,045	\$0	\$5,875	\$5,269	\$1,248	\$3,010	\$0	\$0	\$1,186	\$0
	Amortization Expense - Meters	\$4,800,190	\$3,663,419	\$636,847	\$450,700	\$40,047	\$0	\$7,766	\$0	\$0	\$0	\$0		\$1,412	\$0
	Allocated PILs	\$50,868	\$38,783	\$6,761	\$4,799	\$427	\$0	\$83	\$0	\$0	\$0	\$0	\$0	\$15	\$0
	Allocated Debt Return Allocated Equity Return	\$559,038 \$999,850	\$426,222 \$762,307	\$74,307 \$132,899	\$52,741 \$94,328	\$4,692 \$8,392	\$0 \$0	\$910 \$1,628	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$166 \$296	\$0 \$0
	Allocated Equity Neturn								•	•			•	,	
	Total	\$19,033,365	\$16,071,278	\$1,905,200	\$990,512	\$54,774	\$0	\$1,753	\$3,514	\$1,224	\$2,061	\$0	\$0	\$3,049	\$0

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Scenario 2
Accounts included in Directly Related Customer Costs Plus General Administration Allocation

		Ī	1	2	3	4	5	6	7	8	9	10	11	12	13
USoA Account #	Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
1860	<u>Distribution Plant</u> Meters	\$54,968,547	\$41,951,009	\$7,292,739	\$5,161,109	\$458,587	\$0	\$88,934	\$0	\$0	\$0	\$0	\$0	\$16,170	\$0
	Accumulated Amortizatior Accum. Amortization of Electric Utility Plant - Meters only Meter Net Fixed Assets Allocated General Plant Net Fixed Asset: Meter Net Fixed Assets Including General Plant	(\$28,716,207) \$26,252,340 \$5,136,082 \$31,388,422	(\$21,915,694) \$20,035,315 \$3,943,573 \$23,978,888	(\$3,809,811) \$3,482,927 \$673,634 \$4,156,562	(\$2,696,223) \$2,464,886 \$468,163 \$2,933,049	(\$239,571) \$219,016 \$41,267 \$260,283	\$0 \$0 \$0 \$0	(\$46,460) \$42,474 \$7,994 \$50,468	\$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$7,722 \$1,451	\$0 \$0
4082 4084 4090 4220 4225	Misc Revenue Retail Services Revenues Service Transaction Requests (STR) Revenues Electric Services Incidental to Energy Sales Other Electric Revenues Late Payment Charoes	(\$160,963) (\$4,152) (\$278,736) \$0 (\$1,000,000)	(\$99,691) (\$2,571) (\$172,633) \$0 (\$783,940)	(\$15,449) (\$398) (\$26,752) \$0 (\$111,445)	(\$32,898) (\$848) (\$56,968) \$0 (\$92,163)	(\$6,858) (\$177) (\$11,876) \$0 (\$11,917)	\$0 \$0 \$0 \$0 \$0	(\$5,083) (\$131) (\$8,802) \$0 (\$494)	(\$622) (\$16) (\$1,077) \$0 (\$40)	(\$9) (\$0) (\$16) \$0	(\$9) (\$595)	\$0 \$0 \$0 \$0	\$0 \$0 \$0	(\$0) (\$16) \$0	\$0 \$0 \$0
4223	Sub-total	(\$1,443,850)	(\$1.058.836)	(\$154,044)	(\$182,878)	(\$30,829)	\$0	(+ /	(1 -7	(\$25)		\$0			
5065 5070 5075	Operation Meter Expense Customer Premises - Operation Labour Customer Premises - Materials and Expenses	\$881,674 \$270,095 \$14,371	\$672,878 \$242,391 \$12,897	\$116,973 \$19,455 \$1,035	\$82,782 \$2,391 \$127	\$7,356 \$52 \$3	\$0 \$0 \$0	\$1,426 \$8 \$0	\$0 \$3,208 \$171	\$0 \$42 \$2	\$0 \$2,545	\$0 \$0 \$0	\$0 \$0	\$259 \$2	\$0 \$0
	Sub-total	\$1,166,140	\$928,166	\$137,463	\$85,300	\$7,410	\$0	\$1,435	\$3,379	\$44	\$2,680	\$0	\$0	\$262	\$0
5175	Maintenance Maintenance of Meters	\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0	\$2,799	\$0	\$0	\$0	\$0	\$0	\$509	\$0
5310 5315 5320 5325 5330	Billing and Collection Meter Reading Expense Customer Billing Collecting Coll	\$444,603 \$8,846,969 \$1,879,280 \$0 \$0	\$376,370 \$7,929,862 \$1,684,468 \$0 \$0	\$30,209 \$669,076 \$142,126 \$0 \$0	\$35,656 \$237,052 \$50,355 \$0 \$0	\$1,988 \$6,773 \$1,439 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$322 \$1,088 \$231 \$0 \$0	\$0 \$1,559 \$331 \$0 \$0	\$0 \$993 \$211 \$0 \$0	\$272 \$58	\$0 \$0 \$0 \$0	\$0 \$0 \$0	\$294 \$63 \$0	
	Sub-total	\$11,170,852	\$9,990,700	\$841,410	\$323,063	\$10,199	\$0	\$1,641	\$1,890	\$1,204	\$329	\$0	\$0	\$415	\$0
	Total Operation, Maintenance and Billing	\$14,067,270	\$12,239,383	\$1,208,431	\$570,822	\$32,045	\$0	\$5,875	\$5,269	\$1,248	\$3,010	\$0	\$0	\$1,186	\$0
	Amortization Expense - Meters Amortization Expense - General Plant assigned to Meters Admin and General Allocated PILs Allocated Debt Return Allocated Equity Return	\$4,800,190 \$456,523 \$14,430,021 \$60,820 \$668,407 \$1,195,459	\$3,663,419 \$350,526 \$12,500,337 \$46,416 \$510,116 \$912,353	\$636,847 \$59,876 \$1,262,785 \$8,069 \$88,678 \$158,603	\$450,700 \$41,613 \$614,605 \$5,710 \$62,758 \$112,244	\$40,047 \$3,668 \$34,558 \$507 \$5,576 \$9,973	\$0 \$0 \$0 \$0 \$0 \$0	\$7,766 \$711 \$6,378 \$98 \$1,081 \$1,934	\$0 \$0 \$5,644 \$0 \$0	\$0 \$0 \$1,265 \$0 \$0 \$0	\$0 \$0 \$3,222 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$129 \$1,227 \$18 \$197 \$352	\$0 \$0 \$0 \$0 \$0
	Total	\$34,234,839	\$29,163,716	\$3,269,244	\$1,675,575	\$95,546	\$0	\$9,335	\$9,158	\$2,488	\$5,283	\$0) \$0	\$4,495	\$0

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Scenario 3 Minimum System Customer Costs Adjusted for PLCC - High Limit Fixed Customer Charge

														ı ayı	3 10 01 14
		Ī	1	2	3	4	5	6	7	8	9	10	11	12	13
USoA Account #	Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
4505	Distribution Plant														
1565	Conservation and Demand Management Expenditures and Recoveries	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1830	Poles, Towers and Fixtures	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0			\$0 \$0
1000	Poles, Towers and Fixtures - Subtransmission Bull	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ
1830-3	Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1830-4	Poles, Towers and Fixtures - Primar	\$31,657,956	\$28,461,545	\$2,284,420	\$280,705	\$6,118	\$0	\$990	\$320,171	\$4,948	\$298,789	\$0	\$0	\$270	\$0
1830-5	Poles, Towers and Fixtures - Secondar	\$13,567,695	\$12,375,772	\$780,396	\$82,098	\$2,804	\$0	\$380	\$180,615	\$2,373		\$0		\$0	\$0
1835	Overhead Conductors and Devices	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Overhead Conductors and Devices - Subtransmissior														
1835-3	Bulk Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0		\$0	\$0
1835-4 1835-5	Overhead Conductors and Devices - Priman Overhead Conductors and Devices - Secondar	\$45,245,385 \$0	\$40,677,090 \$0	\$3,264,881 \$0	\$401,183 \$0	\$8,744 \$0	\$0 \$0	\$1,414 \$0	\$457,587 \$0	\$7,072 \$0		\$0 \$0	\$0 \$0	\$386 \$0	\$0 \$0
1840	Underground Conduit	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0	\$0 \$0	\$0 \$0
1840-3	Underground Conduit - Bulk Deliven	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0
1840-4	Underground Conduit - Primary	\$54,550,221	\$49,042,444	\$3,936,312	\$483,687	\$10,542	\$0	\$1,705	\$551,691	\$8,527	\$514,848	\$0	\$0	\$465	\$0
1840-5	Underground Conduit - Secondary	\$21,319,349	\$19,446,441	\$1,226,261	\$129,004	\$4,406	\$0	\$596	\$283,806	\$3,728		\$0		\$0	\$0
1845	Underground Conductors and Device:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1845-3	Underground Conductors and Devices - Bulk Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1845-4	Underground Conductors and Devices - Primar	\$63,757,516	\$57,320,105	\$4,600,706	\$565,326	\$12,321	\$0	\$1,993	\$644,809	\$9,966	\$601,746	\$0	\$0	\$544	\$0
1845-5	Underground Conductors and Devices - Secondary	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0		\$0	\$0
1850	Line Transformers	\$37,379,339	\$33,620,543	\$2,697,755	\$319,683	\$3,826	\$0	\$531	\$378,206	\$5,845		\$0		\$0	\$0
1855 1860	Services Meters	\$77,858,292 \$54,952,377	\$63,713,700 \$41,951,009	\$8,035,368 \$7,292,739	\$4,226,642 \$5,161,109	\$144,355 \$458,587	\$0 \$0	\$58,629 \$88,934	\$929,852 \$0	\$12,214 \$0		\$0 \$0			\$0 \$0
	Sub-total	\$400,288,130	\$346,608,650	\$34,118,837	\$11,649,438	\$651,703	\$0	\$155,173	\$3,746,738	\$54,673	\$3,301,254	\$0	\$0	\$1,664	\$0
	Accumulated Amortization														
	Accum. Amortization of Electric Utility Plant -Line														
	Transformers, Services and Meters	(\$143,600,366)	(\$123,255,250)	(\$12,726,061)	(\$4,863,994)	(\$313,543)	\$0	(\$77,520)		(\$18,151)		\$0			
	Customer Related Net Fixed Assets	\$256,687,764	\$223,353,400	\$21,392,776	\$6,785,444	\$338,159	\$0	\$77,652	\$2,506,032	\$36,522		\$0			
	Allocated General Plant Net Fixed Assets	\$50,424,973	\$43,962,894	\$4,137,586	\$1,288,780	\$63,716	\$0	\$14,615	\$503,415	\$7,570	\$447,773	\$0	\$0	(\$1,375)	\$0
	Customer Related NFA Including General Plant	\$307,112,738	\$267,316,294	\$25,530,362	\$8,074,224	\$401,875	\$0	\$92,267	\$3,009,447	\$44,092	\$2,652,870	\$0	\$0	(\$8,693)	\$0
4000	Misc Revenue	(6400.000)	(600.004)	(04E 110)	(600.000)	(60.050)	**	(6E 000)	(\$000)	(00)	(6011)	**	**	(00)	**
4082 4084	Retail Services Revenues Service Transaction Requests (STR) Revenues	(\$160,963) (\$4,152)	(\$99,691) (\$2,571)	(\$15,449) (\$398)	(\$32,898) (\$848)	(\$6,858) (\$177)	\$0 \$0	(\$5,083) (\$131)		(\$9) (\$0)		\$0 \$0	\$0 \$0	(\$9) (\$0)	
4084	Electric Services Incidental to Energy Sale:	(\$4,152)	(\$2,571)	(\$26,752)	(\$848) (\$56,968)	(\$177) (\$11,876)	\$0 \$0	(\$131)		(\$0) (\$16)		\$0 \$0	\$0 \$0	(\$0) (\$16)	
4220	Other Electric Revenues	\$0	(\$172,033) \$0	\$0,732)	(\$30,900)	\$0	\$0	(\$0,002) \$0	\$0	\$0		\$0	\$0	\$0	\$0
4225	Late Payment Charges	(\$1,000,000)	(\$783,940)	(\$111,445)	(\$92,163)		\$0	(\$494)		\$0		\$0		\$0	\$0
4235	Miscellaneous Service Revenue:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0			\$0
	Sub-total	(\$1,443,850)	(\$1,058,836)	(\$154,044)	(\$182,878)	(\$30,829)	\$0	(\$14,510)	(\$1,755)	(\$25)	(\$948)	\$0	\$0	(\$26)	\$0
														,	

FOOF	Operating and Maintenance	¢0	***	eo.	60	60	60	60	60	**	60	***	60	60	***
5005	Operation Supervision and Engineering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5010	Load Dispatching	\$989,692	\$855,386	\$77,554	\$30,558	\$3,579	\$0	\$2,743	\$10,495	\$152	\$9,221	\$0	\$0	\$5	\$0
5020	Overhead Distribution Lines and Feeders - Operation	600.450	¢00.705	¢c 000	0004	640	ėo.	en	64.040	640	6040	60	60	64	r.o.
5005	Labour	\$98,452	\$88,705	\$6,888	\$831	\$19	\$0	\$3	\$1,043	\$16	\$946	\$0	\$0	\$1	\$0
5025	Overhead Distribution Lines & Feeders - Operation	\$20,440	\$18,416	\$1,430	\$173	\$4	\$0	\$1	\$217	\$3	\$196	\$0	\$0	\$0	\$0
5035	Supplies and Expenses Overhead Distribution Transformers- Operation	\$29,734	\$26,744	\$2,146	\$173 \$254	\$3	\$0	\$0	\$301	\$5 \$5	\$281	\$0	\$0 \$0	\$0 \$0	\$0 \$0
5040	Underground Distribution Lines and Feeders	\$29,734	\$20,744	\$2,140	\$234	φο	φU	φU	φ301	φυ	\$201	φυ	φU	φU	φυ
3040	Operation Labour	\$225,560	\$203,238	\$15,772	\$1,903	\$44	\$0	\$7	\$2,391	\$36	\$2,167	\$0	\$0	\$2	\$0
5045	Underground Distribution Lines & Feeders - Operation	\$223,300	Ψ203,230	\$13,772	φ1,303	444	ΨΟ	Ψ1	Ψ2,391	φου	\$2,107	ΨΟ	90	ΨΖ	ΨΟ
5045	Supplies & Expenses	\$1,199,565	\$1,080,851	\$83,878	\$10,121	\$234	\$0	\$37	\$12,718	\$191	\$11,527	\$0	\$0	\$9	\$0
5055	Underground Distribution Transformers - Operatio	\$19,683	\$17,704	\$1,421	\$168	\$2	\$0	\$0	\$199	\$3	\$186	\$0	\$0	\$0	\$0
5065	Meter Expense	\$881.674	\$672,878	\$116.973	\$82.782	\$7.356	\$0	\$1,426	\$0	\$0	\$0	\$0	\$0	\$259	\$0
5070	Customer Premises - Operation Labou	\$270,095	\$242,391	\$19,455	\$2,391	\$52	\$0	\$8	\$3,208	\$42	\$2,545	\$0	\$0	\$2	\$0
5075	Customer Premises - Materials and Expense:	\$14,371	\$12,897	\$1,035	\$127	\$3	\$0	\$0	\$171	\$2	\$135	\$0	\$0	\$0	\$0
5085	Miscellaneous Distribution Expens	\$3,319,923	\$2,869,395	\$260,155	\$102,507	\$12,005	\$0	\$9,200	\$35,205	\$510	\$30,931	\$0	\$0	\$15	\$0
5090	Underground Distribution Lines and Feeders - Renta		. , ,	,		, ,	•	,	****	• • •	*****			, .	
	Paid	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5095	Overhead Distribution Lines and Feeders - Renta														
	Paid	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5096	Other Rent	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5105	Maintenance Supervision and Engineerin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5120	Maintenance of Poles, Towers and Fixture:	\$177,135	\$159,948	\$12,004	\$1,421	\$35	\$0	\$5	\$1,961	\$29	\$1,731	\$0	\$0	\$1	\$0
5125	Maintenance of Overhead Conductors and Device	\$210,001	\$188,798	\$15,154	\$1,862	\$41	\$0	\$7	\$2,124	\$33	\$1,982	\$0	\$0	\$2	\$0
5130	Maintenance of Overhead Services	\$222,471	\$182,054	\$22,960	\$12,077	\$412	\$0	\$168	\$2,657	\$35	\$2,107	\$0	\$0	\$0	\$0
5135	Overhead Distribution Lines and Feeders - Right of														
	Way	\$1,171,351	\$1,055,387	\$81,952	\$9,892	\$229	\$0	\$36	\$12,408	\$186	\$11,252	\$0	\$0	\$8	\$0
5145	Maintenance of Underground Condui	\$133,867	\$120,844	\$9,109	\$1,081	\$26	\$0	\$4	\$1,474	\$22	\$1,306	\$0	\$0	\$1	\$0
5150															
	Maintenance of Underground Conductors and Devices	\$272,687	\$245,154	\$19,677	\$2,418	\$53	\$0	\$9	\$2,758	\$43	\$2,574	\$0	\$0	\$2	\$0
5155	Maintenance of Underground Services	\$164,794	\$134,856	\$17,008	\$8,946	\$306	\$0	\$124	\$1,968	\$26	\$1,561	\$0	\$0	\$0	\$0
5160	Maintenance of Line Transformers	\$158,376	\$142,450	\$11,430	\$1,355	\$16	\$0	\$2	\$1,602	\$25	\$1,495	\$0	\$0	\$0	\$0
E47E	** : :							00.700	**					0500	
5175	Maintenance of Meters	\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0	\$2,799	\$0	\$0	\$0	\$0	\$0	\$509	\$0
5175	Maintenance of Meters Sub-total							\$2,799 \$16,580	\$0 \$92,900					\$509 \$817	
5175		\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0		, ,	\$0	\$0	\$0	\$0	,	\$0 \$0
5175		\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0		, ,	\$0	\$0	\$0	\$0	,	
<u>5175</u> 5305	Sub-total	\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0		, ,	\$0	\$0	\$0	\$0	,	\$0 \$0
	Sub-total Billing and Collection	\$1,730,278 \$11,310,149	\$1,320,517 \$9,638,614	\$229,558 \$1,005,559	\$162,459 \$433,326	\$14,435 \$38,853	\$0 \$0	\$16,580	\$92,900	\$0 \$1,357	\$0 \$82,143	\$0 \$0	\$0 \$0	\$817	\$0 \$0 \$0
5305 5310 5315	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076	\$162,459 \$433,326 \$0 \$35,656 \$237,052	\$14,435 \$38,853 \$0 \$1,988 \$6,773	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,580 \$0 \$322 \$1,088	\$92,900 \$0 \$0 \$1,559	\$0 \$1,357 \$0 \$0 \$0 \$993	\$0 \$82,143 \$0 \$0 \$0 \$272	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$817 \$0 \$58 \$294	\$0 \$0 \$0 \$0
5305 5310 5315 5320	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting	\$1,730,278 \$11,310,149 \$0 \$444,603	\$1,320,517 \$9,638,614 \$0 \$376,370	\$229,558 \$1,005,559 \$0 \$30,209	\$162,459 \$433,326 \$0 \$35,656	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,580 \$0 \$322 \$1,088 \$231	\$92,900 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211	\$0 \$82,143 \$0 \$0 \$272 \$58	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$817 \$0 \$58 \$294 \$63	\$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting- Cash Over and Shor	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,580 \$0 \$322 \$1,088 \$231 \$0	\$92,900 \$0 \$0 \$1,559 \$331 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0	\$0 \$82,143 \$0 \$0 \$272 \$58 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$817 \$0 \$58 \$294 \$63 \$0	\$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330	Sub-total Billing and Collection Supervision Meter Reading Expense Cuter Reading Collecting Collecting Collecting Collecting Cosh Over and Shor Collection Charges	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$0	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0	\$92,900 \$0 \$0 \$1,559 \$331 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0	\$82,143 \$0 \$0 \$272 \$58 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$817 \$0 \$58 \$294 \$63 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting Collecting Cash Over and Shor Collection Charges Bad Obet Expense	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$1,184,754	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$144,025	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0	\$92,900 \$0 \$0 \$1,559 \$331 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0	\$82,143 \$0 \$0 \$272 \$58 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330	Sub-total Billing and Collection Supervision Meter Reading Expense Cuter Reading Collecting Collecting Collecting Collecting Cosh Over and Shor Collection Charges	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$0	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0	\$92,900 \$0 \$0 \$1,559 \$331 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0	\$82,143 \$0 \$0 \$272 \$58 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$817 \$0 \$58 \$294 \$63 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting Collecting Collecting Bad Debt Expense Miscellaneous Customer Accounts Expense	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308 \$0	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$139,624 \$0	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$0 \$144,025	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0	\$92,900 \$0 \$0 \$1,559 \$331 \$0 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0	\$0 \$82,143 \$0 \$0 \$272 \$58 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting Collecting Cash Over and Shor Collection Charges Bad Obet Expense	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$1,184,754	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$144,025	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0	\$92,900 \$0 \$0 \$1,559 \$331 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0	\$82,143 \$0 \$0 \$272 \$58 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting: Collecting- Cash Over and Shor Collection Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$1,540,308 \$0 \$1,540,308	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$0 \$11,175,454	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$139,624	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$144,025 \$0	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$71,905 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$0	\$92,900 \$0 \$1,559 \$331 \$0 \$0 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting Collecting Collecting Bad Debt Expense Miscellaneous Customer Accounts Expense	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308 \$0	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$139,624 \$0	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$0 \$144,025	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0	\$92,900 \$0 \$0 \$1,559 \$331 \$0 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0	\$0 \$82,143 \$0 \$0 \$272 \$58 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting Collecting Cosh Over and Shor Collection Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub-Total Operating, Maintenance and Billing	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308 \$0 \$1,540,308 \$12,711,160	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$20,814,068	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$1,986,592	\$162,459 \$433,326 \$0 \$33,656 \$227,052 \$50,355 \$0 \$144,025 \$5,356 \$0 \$144,025 \$5,047,088	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$721,905 \$0 \$120,957	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$1,641	\$92,900 \$0 \$1,559 \$1,5331 \$0 \$0 \$0 \$1,890	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$15 \$1,232	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting Collecting Collecting Collecting Collecting Collecting Sub Total Collecting Collecting Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub-total Sub-Total Operating, Maintenance and Biling Amortization Expense - Customer Related	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$1,540,308 \$0 \$1,540,308	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$0 \$11,175,454	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$139,624	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$50,355 \$0 \$144,025 \$0	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$71,905 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$0	\$92,900 \$0 \$1,559 \$331 \$0 \$0 \$0 \$0	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Collecting Collecting Cosah Over and Shor Collection Charges Bad Obet Expense Miscellaneous Customer Accounts Expense Sub-total Sub Total Operating, Maintenance and Biling Amortization Expense - Customer Related Amortization Expense - General Plant assigned to	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308 \$0 \$1,540,308 \$12,711,160	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$20,814,068	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$1,986,592	\$162,459 \$433,326 \$0 \$33,656 \$227,052 \$50,355 \$0 \$144,025 \$5,356 \$0 \$144,025 \$5,047,088	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$721,905 \$0 \$120,957	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$1,641	\$92,900 \$0 \$1,559 \$1,5331 \$0 \$0 \$0 \$1,890	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$15 \$1,232	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting- Cash Over and Shor Collection Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub Total Operating, Maintenance and Billing Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$1,540,308 \$0 \$12,711,160 \$24,021,309 \$12,735,578	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$0 \$11,175,454 \$20,814,068 \$10,465,306	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$981,033 \$1,986,592 \$1,260,989	\$162,459 \$433,326 \$0 \$35,656 \$227,052 \$50,355 \$0 \$0 \$144,025 \$0 \$467,088 \$900,414 \$733,845	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$82,104 \$120,957 \$78,445	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$1,641 \$18,221 \$37,950	\$92,900 \$0 \$1,559 \$331 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262	\$0 \$1,357 \$0 \$0 \$93 \$211 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$2 \$0 \$2 \$0 \$1 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$0 \$1,232 \$1,449	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting- Cash Over and Shor Collection Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub-total Sub Total Operating, Maintenance and Billing Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters Admin and General	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$11,184,754 \$20,814,068 \$10,465,306 \$3,907,664	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$981,033 \$1,986,592 \$1,260,989 \$367,771	\$162,459 \$433,326 \$0 \$35,656 \$227,052 \$50,355 \$0 \$144,025 \$0 \$467,088 \$900,414 \$733,845 \$114,554	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$71,905 \$0 \$71,905 \$0 \$2,104 \$120,957 \$78,445 \$5,663	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$3,22 \$1,088 \$221 \$0 \$0 \$0 \$0 \$1,641 \$18,221 \$37,950 \$1,299	\$92,900 \$0 \$1,559 \$3311 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$2 \$2 \$2 \$329 \$32,473 \$73,129 \$39,801	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$1,232 \$1,449 (\$122) \$1,275	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting- Cash Over and Shor Collection Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub Total Operating, Maintenance and Billing Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,989 \$1,679,280 \$0 \$0 \$1,540,308 \$0 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049 \$24,647,180	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$0 \$11,175,454 \$20,814,068 \$10,465,306 \$3,907,664 \$21,257,842	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$981,033 \$1,986,592 \$1,260,989 \$367,771 \$2,075,947	\$162,459 \$433,326 \$0 \$33,656 \$237,052 \$50,355 \$0 \$144,025 \$0 \$467,088 \$900,414 \$733,845 \$114,554 \$969,478	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$2,104 \$120,957 \$78,445 \$5,663 \$130,441	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$0 \$1,641 \$18,221 \$37,950 \$1,299 \$19,779	\$92,900 \$0 \$1,559 \$331 \$0 \$0 \$0 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746 \$101,540	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202	\$0 \$82,143 \$0 \$0 \$0 \$2772 \$58 \$0 \$0 \$0 \$0 \$0 \$29 \$329 \$32,473 \$73,129 \$39,801 \$88,284	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$1 \$1,232 \$1,449 (\$122)	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Cutectoring Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Sub Collecting Sub Total Sub-total Sub-total Sub-total Sub-Total Operating, Maintenance and Biling Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters Admin and General Allocated PILs	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$1,540,308 \$0 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049 \$24,647,180 \$594,647	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$11,184,754 \$20,814,068 \$10,465,306 \$3,907,664 \$21,257,842 \$517,450	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$981,033 \$1,986,592 \$1,260,989 \$367,771 \$2,075,947 \$49,561	\$162,459 \$433,326 \$0 \$33,656 \$237,052 \$50,355 \$0 \$144,025 \$90 \$467,088 \$900,414 \$733,845 \$114,554 \$990,478 \$15,720	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$71,905 \$0 \$72,104 \$120,957 \$78,445 \$5,663 \$130,441 \$783	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$1,641 \$18,221 \$37,950 \$1,299 \$19,779 \$180	\$92,900 \$0 \$1,559 \$1,5331 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746 \$101,540 \$5,806	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202 \$673 \$2,594 \$85	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$0 \$2 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$584 \$63 \$0 \$0 \$0 \$0 \$0 \$1,232 \$1,242 \$1,275 \$1,275 \$1,275 \$1,275	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters Admin and General Allocated PILs Allocated Debt Return	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$0 \$1,540,308 \$1,540,308 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049 \$24,647,180 \$594,647,180 \$15,467,180 \$	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$0 \$11,175,454 \$20,814,068 \$10,465,306 \$3,907,664 \$21,257,842 \$517,450 \$5,886,766 \$10,170,893	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$139,624 \$0 \$139,624 \$0 \$1,986,592 \$1,260,989 \$367,771 \$2,075,947 \$49,561 \$544,678 \$974,168	\$162,459 \$433,326 \$0 \$35,656 \$237,052 \$0,355 \$0 \$144,025 \$0 \$467,068 \$900,414 \$733,845 \$114,554 \$969,478 \$172,763 \$306,990	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$71,905 \$0 \$82,104 \$120,957 \$78,445 \$5,663 \$130,441 \$783 \$8,610 \$15,399	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$3.22 \$1,088 \$221 \$0 \$0 \$0 \$0 \$5,641 \$18,221 \$37,950 \$1,299 \$19,779 \$180 \$1,977 \$3,536	\$92,900 \$0 \$1,559 \$331 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746 \$151,540 \$63,806 \$114,118	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202 \$673 \$2,594 \$85 \$930 \$1,663	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$29 \$329 \$32,473 \$73,129 \$39,801 \$88,284 \$5,109 \$66,144 \$100,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$1,232 \$1,449 (\$122) \$1,275 (\$186) (\$333)	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting- Cash Over and Shor Collection Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Miscellaneous Customer Accounts Expense Sub-total Sub-total Sub Total Operating, Maintenance and Biling Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters Admin and General Allocated PILs Allocated PILs Allocated Equity Return PLCC Adjustment for Line Transformer	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,989 \$1,879,280 \$0 \$0 \$1,540,308 \$0 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049 \$24,647,180 \$94,677 \$6,535,487 \$11,688,847	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,1184,754 \$0 \$11,175,454 \$20,814,068 \$10,465,306 \$3,907,664 \$21,257,842 \$517,450 \$5,686,766 \$10,170,893	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$981,033 \$1,986,592 \$1,260,989 \$367,771 \$2,075,947 \$49,561 \$544,678 \$974,168 \$62,306	\$162,459 \$433,326 \$0 \$36,656 \$237,052 \$50,355 \$0 \$144,025 \$0 \$467,088 \$900,414 \$733,845 \$114,554 \$969,478 \$15,720 \$172,763 \$308,990 \$7,383	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$82,104 \$120,957 \$78,445 \$5,663 \$130,441 \$783 \$8,610 \$15,399 \$88	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$1,641 \$18,221 \$37,950 \$1,299 \$19,779 \$180 \$1,977 \$3,536 \$12	\$92,900 \$0 \$1,559 \$331 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746 \$114,118 \$8,783	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202 \$673 \$2,594 \$85 \$930 \$1,663	\$0 \$82,143 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$0 \$2 \$2 \$329 \$82,473 \$73,129 \$39,801 \$88,284 \$5,109 \$66,144 \$100,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$0 \$1,232 \$1,449 (\$122) \$1,275 (\$176) (\$186) (\$333)	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Superision Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub-total Sub-Total Operating, Maintenance and Billing Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters Admic and General Allocated Equit Return Allocated Equit Return PLCC Adjustment for Line Transformer PLCC Adjustment for Primary Costs	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$1,540,308 \$0 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049 \$24,647,180 \$594,677 \$6,535,487 \$11,688,847 \$863,582 \$6,447,825	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$0 \$11,175,454 \$20,814,068 \$10,465,306 \$3,907,664 \$21,257,842 \$517,450 \$5,686,766 \$10,170,893 \$776,804 \$5,795,951	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$2 \$1,260,989 \$367,771 \$2,075,947 \$49,561 \$544,678 \$974,168 \$62,306 \$465,778	\$162,459 \$433,326 \$0 \$33,656 \$237,052 \$50,355 \$0 \$0 \$144,025 \$50 \$467,088 \$900,414 \$733,845 \$114,554 \$169,478 \$15,720 \$172,763 \$308,990 \$7,383 \$57,454	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$120,957 \$78,445 \$5,663 \$130,441 \$783 \$8,610 \$15,399 \$88 \$1,254	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$5 \$1,641 \$18,221 \$37,950 \$1,299 \$19,779 \$180 \$1,977 \$3,536	\$92,900 \$0 \$1,559 \$3311 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746 \$151,540 \$61,540 \$61,411 \$8,783 \$65,736	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202 \$673 \$2,594 \$85 \$930 \$1,663	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$0 \$2 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$584 \$63 \$0 \$0 \$0 \$0 \$0 \$1,232 \$1,449 (\$122) \$1,277 (\$186) (\$333) \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Billing Collecting- Cash Over and Shor Collection Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Miscellaneous Customer Accounts Expense Sub-total Sub-total Sub Total Operating, Maintenance and Biling Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters Admin and General Allocated PILs Allocated PILs Allocated Equity Return PLCC Adjustment for Line Transformer	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,989 \$1,879,280 \$0 \$0 \$1,540,308 \$0 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049 \$24,647,180 \$94,677 \$6,535,487 \$11,688,847	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,1184,754 \$0 \$11,175,454 \$20,814,068 \$10,465,306 \$3,907,664 \$21,257,842 \$517,450 \$5,686,766 \$10,170,893	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$981,033 \$1,986,592 \$1,260,989 \$367,771 \$2,075,947 \$49,561 \$544,678 \$974,168 \$62,306	\$162,459 \$433,326 \$0 \$36,656 \$237,052 \$50,355 \$0 \$144,025 \$0 \$467,088 \$900,414 \$733,845 \$114,554 \$969,478 \$15,720 \$172,763 \$308,990 \$7,383	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$82,104 \$120,957 \$78,445 \$5,663 \$130,441 \$783 \$8,610 \$15,399 \$88	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$1,641 \$18,221 \$37,950 \$1,299 \$19,779 \$180 \$1,977 \$3,536 \$12	\$92,900 \$0 \$1,559 \$331 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746 \$114,118 \$8,783	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202 \$673 \$2,594 \$85 \$930 \$1,663	\$0 \$82,143 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$0 \$2 \$2 \$329 \$82,473 \$73,129 \$39,801 \$88,284 \$5,109 \$66,144 \$100,414	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$294 \$63 \$0 \$0 \$0 \$0 \$0 \$1,232 \$1,449 (\$122) \$1,275 (\$176) (\$186) (\$333)	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
5305 5310 5315 5320 5325 5330 5335	Sub-total Billing and Collection Supervision Meter Reading Expense Customer Superision Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Collecting Charges Bad Debt Expense Miscellaneous Customer Accounts Expense Sub-total Sub-total Sub-Total Operating, Maintenance and Billing Amortization Expense - Customer Related Amortization Expense - General Plant assigned to Meters Admic and General Allocated Equit Return Allocated Equit Return PLCC Adjustment for Line Transformer PLCC Adjustment for Primary Costs	\$1,730,278 \$11,310,149 \$0 \$444,603 \$8,846,969 \$1,879,280 \$0 \$1,540,308 \$0 \$12,711,160 \$24,021,309 \$12,735,578 \$4,482,049 \$24,647,180 \$594,677 \$6,535,487 \$11,688,847 \$863,582 \$6,447,825	\$1,320,517 \$9,638,614 \$0 \$376,370 \$7,929,862 \$1,684,468 \$0 \$0 \$1,184,754 \$0 \$11,175,454 \$20,814,068 \$10,465,306 \$3,907,664 \$21,257,842 \$517,450 \$5,686,766 \$10,170,893 \$776,804 \$5,795,951	\$229,558 \$1,005,559 \$0 \$30,209 \$669,076 \$142,126 \$0 \$0 \$139,624 \$0 \$2 \$1,260,989 \$367,771 \$2,075,947 \$49,561 \$544,678 \$974,168 \$62,306 \$465,778	\$162,459 \$433,326 \$0 \$33,656 \$237,052 \$50,355 \$0 \$0 \$144,025 \$50 \$467,088 \$900,414 \$733,845 \$114,554 \$169,478 \$15,720 \$172,763 \$308,990 \$7,383 \$57,454	\$14,435 \$38,853 \$0 \$1,988 \$6,773 \$1,439 \$0 \$0 \$71,905 \$0 \$120,957 \$78,445 \$5,663 \$130,441 \$783 \$8,610 \$15,399 \$88 \$1,254	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$16,580 \$0 \$322 \$1,088 \$231 \$0 \$0 \$0 \$0 \$5 \$1,641 \$18,221 \$37,950 \$1,299 \$19,779 \$180 \$1,977 \$3,536	\$92,900 \$0 \$1,559 \$3311 \$0 \$0 \$0 \$1,890 \$94,790 \$83,262 \$44,746 \$151,540 \$61,540 \$61,411 \$8,783 \$65,736	\$0 \$1,357 \$0 \$0 \$993 \$211 \$0 \$0 \$0 \$0 \$0 \$1,204 \$2,561 \$1,202 \$673 \$2,594 \$85 \$930 \$1,663	\$0 \$82,143 \$0 \$0 \$0 \$272 \$58 \$0 \$0 \$0 \$0 \$0 \$2 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$817 \$0 \$58 \$584 \$63 \$0 \$0 \$0 \$0 \$0 \$1,232 \$1,449 (\$122) \$1,277 (\$186) (\$333) \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$

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Below: Grouping to avoid disclosure

Scenario 1
Accounts included in Avoided Costs Plus General Administration Allocation

Accounts		Total	Residential	GS <50	G	S 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate		Large Use	Street Light	Sentinel		Unmetered Scattered Load	Embedded Distributor	Standb Power 0 50 to 1,4 kW	s s	tandby Power 3 1,500 to 4,999 kW	Standby Power Large Use
Distribution Plant CWMC	\$	54,968,547	\$ 41,951,009	\$ 7,292,7	39 \$	5,161,109	\$ 458,587	\$ -	. \$	88,934	\$ -	\$	-	\$ -	\$	- \$	- \$	16,170	\$ -
Accumulated Amortization Accum. Amortization of Electric Utility Plant - Meters																			
only Meter Net Fixed Assets	\$ \$	(28,716,207) 26,252,340				(2,696,223) 2,464,886			· \$	(46,460) 42,474			-			· \$ · \$	- \$ - \$	(8,447) 7,722	
Misc Revenue CWNB	\$	(443,850)	\$ (274,896	i) \$ (42,5	99) \$	(90,714)	\$ (18,912)	\$ -	. \$	(14,016)	\$ (1,715)) \$ (2	25)	\$ (948)	\$	- \$	- \$	(26)	\$ -
NFA LPHA	\$	(1,000,000)	\$ (783,940			(92,163)	\$ (11,917)	\$ -	\$	(494)	\$ (40)	\$	-	\$ -	\$	· \$	- \$ - \$	- (20)	\$ -
Sub-total Operation	\$	(1,443,850)	\$ (1,058,836	i) \$ (154,0	44) \$	(182,878)	\$ (30,829)	-	. \$	(14,510)	\$ (1,755)) \$ (2	25)	\$ (948)	\$	- \$	- \$	(26)	\$ -
CWMC CCA	\$ \$	881,674 284,466	\$ 255,288	\$ 20,4	73 \$ 90 \$	82,782 2,518	\$ 55	\$ -	\$ \$	1,426 9	\$ 3,379	\$ 4	- 14	\$ 2,680	\$	· \$ · \$	- \$ - \$	259 2	\$ -
Sub-total Maintenance	\$	1,166,140	\$ 928,166	\$ 137,4	63 \$	85,300	\$ 7,410	\$ -	. \$	1,435	\$ 3,379	\$ 4	14	\$ 2,680	\$	- \$	- \$	262	\$ -
1860	\$	1,730,278	\$ 1,320,517	\$ 229,5	58 \$	162,459	\$ 14,435	\$ -	\$	2,799	\$ -	\$	-	\$ -	\$	- \$	- \$	509	\$ -
Billing and Collection CWMR	\$	444,603			09 \$	35,656			. \$	322			-			- \$	- \$	58	
CWNB Sub-total	\$	10,726,249	\$ 9,614,330 \$ 9,990,700		01 \$	287,407 323,063			· \$	1,319)4			· \$	- \$	357 415	
Total Operation, Maintenance and Billing	\$	14,067,270	,,	,		570,822			- 7	5,875			18		•		. \$	1,186	
Amortization Expense - Meters Allocated PILs	\$	4,800,190 50,868	\$ 38,783	\$ 6,7	47 \$ 61 \$	450,700 4,799	\$ 427	\$ -	· \$	7,766 83 910	\$ -	\$	-	\$ -	\$	- \$ - \$	- \$ - \$	1,412 15	\$ -
Allocated Debt Return Allocated Equity Return	\$	559,038 999,850			07 \$ 99 \$	52,741 94,328			· \$	910 1,628			-			- \$ - \$	- \$ - \$	166 296	
Total	\$	19,033,365	\$ 16,071,278	\$ 1,905,2	00 \$	990,512	\$ 54,774	\$ -	\$	1,753	\$ 3,514	\$ 1,22	24	\$ 2,061	\$ -	\$ -	. \$	3,049	\$ -

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Scenario 2

Accounts included in Directly Related Customer Costs Plus General Administration Allocation

Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
Distribution Plant CWMC	\$ 54,968,54	7 \$ 41,951,009	\$ 7,292,739	\$ 5,161,109	\$ 458,587	\$ -	\$ 88,934	\$ -	\$ -	\$ -	\$	- \$ -	\$ 16,170	\$ -
Accumulated Amortizatior Accum. Amortization of Electric Utility Plant - Meters only	\$ (28,716,20				,				•				\$ (8,447)	
Meter Net Fixed Assets Allocated General Plant Net Fixed Assets	\$ 26,252,34 \$ 5,136,08												\$ 7,722 \$ 1,451	
Meter Net Fixed Assets Including General Plant	\$ 31,388,42	2 \$ 23,978,888	\$ 4,156,562	\$ 2,933,049	\$ 260,283	\$ -	\$ 50,468	\$ -	\$ -	\$ -	\$	- \$ -	\$ 9,173	\$ -
NFA	\$ (443,85 \$ \$ (1,000,00 \$ (1,443,85	- \$ - 0) \$ (783,940)	\$ - \$ (111,445)	\$ - \$ (92,163	\$ -) \$ (11,917)	\$ - \$ -	\$ - \$ (494)	\$ -	\$ - \$ -	\$ - \$ -	\$ \$	- \$ - - \$ -	•	\$ - \$ -
Operation CWMC	\$ 881,67	4 \$ 672,878	, , , , ,	,	\$ 7,356	\$ -	, , , ,					,	\$ 259	
CCA Sub-total	\$ 284,46 \$ 1,166,14							\$ 3,379 \$ 3,379					\$ 2 \$ 262	
Maintenance 1860	\$ 1,730,27	8 \$ 1,320,517	\$ 229,558	\$ 162,459	\$ 14,435	\$ -	\$ 2,799	\$ -	\$ -	\$ -	\$	- \$ -	\$ 509	\$ -
÷ · · · · · ·	\$ 444,60 \$ 10,726,24	9 \$ 9,614,330	\$ 811,201	\$ 287,407	\$ 8,211	\$ -	\$ 1,319	\$ 1,890	\$ 1,204	\$ 329	\$	-\$-	\$ 58 \$ 357	\$ -
Total Operation, Maintenance and Billing	\$ 11,170,85 \$ 14,067,27											,	\$ 415 \$ 1,186	
Amortization Expense - Meters Amortization Expense -	\$ 4,800,19	0 \$ 3,663,419	\$ 636,847	\$ 450,700	\$ 40,047	\$ -	\$ 7,766	\$ -	\$ -	\$ -	\$	- \$ -	\$ 1,412	\$ -
Admin and General Allocated PiLs Allocated Debt Return	\$ 456,52 \$ 14,430,02 \$ 60,82 \$ 668,40	1 \$ 12,500,337 0 \$ 46,416 7 \$ 510,116	\$ 1,262,785 \$ 8,069 \$ 88,678	\$ 614,605 \$ 5,710 \$ 62,758	\$ 34,558 \$ 507 \$ 5,576	\$ - \$ - \$ -	\$ 6,378 \$ 98 \$ 1,081	\$ 5,644 \$ - \$ -	\$ 1,265 \$ - \$ -	\$ 3,222 \$ - \$ -	\$ \$ \$	- \$ - - \$ - - \$ -	\$ 129 \$ 1,227 \$ 18 \$ 197	\$ - \$ - \$ -
Allocated Equity Return Total	\$ 1,195,45 \$ 34,234,83						, , , , , , , , , , , , , , , , , , , ,	•	•		•		\$ 352 \$ 4,495	·

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<u>Scenario 3</u>
Minimum System Customer Costs Adjusted for PLCC - High Limit Fixed Customer Charge

JSoA count #	Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
	Distribution Plant					•			I				, KVV	1	
		\$ -									\$ -				\$ -
		\$ -		•				•	•	•	\$ -	•			\$ -
	BCP		\$											\$ -	\$ -
	PNCP SNCP	\$ 195,211,077												\$ 1,664	\$ -
			\$ 31,822,213 \$ \$ - \$			\$ 7,210 \$ -			· · · · · · · · · ·	\$ 6,101	\$ 308,304	•		\$ - \$ -	\$ - \$ -
			\$ 33.620.543	~					-			Ψ.		•	\$ -
			\$ 63,713,700		\$ 4,226,642				\$ 929.852					•	\$ -
		\$ 54,952,377			\$ 5,161,109										\$ -
	Sub-total	\$ 400,288,130	\$ 346,608,650	\$ 34,118,837	\$ 11,649,438	\$ 651,703	\$ -	\$ 155,173	\$ 3,746,738	\$ 54,673	\$ 3,301,254	\$ -	\$ -	\$ 1,664	\$ -
	Accumulated Amortization														
	Accum. Amortization of Electric Utility Plant -Line	\$ (143,600,366)	\$ (123,255,250)	\$ (12,726,061)	\$ (4,863,994)	\$ (313,543)	\$ -	\$ (77,520)	\$ (1,240,706)	\$ (18,151)	\$ (1,096,158)	\$ -	s -	\$ (8,983)	S -
	ransformers, Services and Meters														
			\$ 223,353,400 \$ \$ 43,962,894 \$,,-,-,,	1 17.117				\$ 2,506,032 \$ 503,415		\$ 2,205,097 \$ 447,773			\$ (7,318) \$ (1,375)	
		\$ 50,424,973 \$ 307,112,738												\$ (1,375)	
	Customer Related NFA including General Plant	Ψ 301,112,130	Ψ 201,010,294 3	20,000,002	Ψ 0,014,224	Ψ 401,075	-	ψ 52,201	Ψ 5,005,447	Ψ 44,092	Ψ 2,002,070	Ψ -	Ψ -	ψ (0,093)	-
	Misc Revenue														
		\$ (443,850)	\$ (274,896)	\$ (42,599)	\$ (90,714)	\$ (18,912)	\$ -	\$ (14,016)	\$ (1,715)	\$ (25)	\$ (948)	\$ -	\$ -	\$ (26)	\$ -
		\$ -	\$ - 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
		\$ (1,000,000)													\$ -
	Sub-total	\$ (1,443,850)	\$ (1,058,836)	\$ (154,044)	\$ (182,878)	\$ (30,829)	\$ -	\$ (14,510)	\$ (1,755)	\$ (25)	\$ (948)	\$ -	\$ -	\$ (26)	\$ -
	Operating and Maintenance														
	Operating and Maintenance 1815-1855	\$ 4,309,615	\$ 3,724,781	\$ 337,709	\$ 133,066	\$ 15,583	§ -	\$ 11,943	\$ 45,699	\$ 662	\$ 40,152	¢	s -	\$ 20	¢
		\$ 1,290,243													\$ - \$ -
		\$ 207,794													\$ -
		\$ 1,425,125				\$ 278					\$ 13,694			\$ 10	
		\$ 881,674		\$ 116,973	\$ 82,782	\$ 7,356		\$ 1,426	\$ -	\$ -	\$ -	Ψ		\$ 259	
		\$ 284,466	\$ 255,288	\$ 20,490	\$ 2,518	\$ 55	-	\$ 9	\$ 3,379	\$ 44	\$ 2,680	\$ -			\$ -
			\$ - 5	-			-	*	-			*			\$ -
		\$ 177,135									\$ 1,731				\$ -
		\$ 210,001			Ψ 1,002	\$ 41		Ψ .							\$ -
		\$ 387,265 \$ 133,867			\$ 21,023 \$ 1,081										\$ - \$ -
		\$ 272,687			\$ 2,418										\$ - \$ -
		\$ 1,730,278												\$ 509	
	Sub-total	\$ 11,310,149										Ψ		\$ 817	
		, ,,,,,,,,		,,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Billing and Collection														
		\$ 10,726,249												\$ 357	
	CWMR		\$ 376,370 \$		\$ 35,656						\$ -			\$ 58	
	BDHA Sub-total	\$ 1,540,308									\$ 329				\$ - \$ -
	อนม-เบเลเ	\$ 12,711,160	\$ 11,175,454	981,033	\$ 467,088	\$ 82,104	\$ -	\$ 1,641	φ 1,890	φ 1,204	ş 329	φ -	\$ -	\$ 415	φ -
	Sub Total Operating, Maintenance and Biling	\$ 24,021,309	\$ 20,814,068	\$ 1,986,592	\$ 900,414	\$ 120,957	\$ -	\$ 18,221	\$ 94,790	\$ 2,561	\$ 82,473	\$ -	\$ -	\$ 1,232	\$ -
		\$ 12,735,578	\$ 10,465,306	\$ 1,260,989	\$ 733,845	\$ 78,445	\$ -	\$ 37,950	\$ 83,262	\$ 1,202	\$ 73,129	\$ -	\$ -	\$ 1,449	\$ -
	Amortization Expense - General Plant assigned to Meters	\$ 4,482,049	\$ 3,907,664	\$ 367,771	\$ 114,554	\$ 5,663	-	\$ 1,299	\$ 44,746	\$ 673	\$ 39,801	\$ -	\$ -	\$ (122)	\$ -
		\$ 24,647,180	\$ 21,257,842	\$ 2,075,947	\$ 969,478	\$ 130,441	s -	\$ 19,779	\$ 101,540	\$ 2,594	\$ 88,284	\$ -	s -	\$ 1,275	\$ -
			\$ 517,450						\$ 5,806					\$ (17)	
			\$ 5,686,766	\$ 544,678	\$ 172,763	\$ 8,610		\$ 1,977	\$ 63,806					\$ (186)	
		\$ 11,688,847					-	\$ 3,536			\$ 100,414	\$ -		\$ (333)	
	PLCC Adjustment for Line Transformer	\$ 863,582	\$ 776,804	\$ 62,306	\$ 7,383	\$ 88	\$ -	\$ 12	\$ 8,783	\$ -	\$ 8,205	\$ -	\$ -	\$ -	\$ -
		\$ 6,447,825		\$ 465,778	\$ 57,454				\$ 65,736		\$ 61,395	\$ -		\$ 55	
	PLCC Adjustment for Secondary Costs	\$ 1,934,452	\$ 1,737,902	\$ 132,043	\$ 16,068	\$ -	\$ -	\$ -	\$ 20,248	\$ -	\$ 28,191	\$ -	\$ -	\$ -	\$ -
	Total	\$ 74,015,418	\$ 63,450,496	\$ 6,445,537	\$ 2,951,982	\$ 328,128	s -	\$ 68,218	\$ 411,544	\$ 9,683	\$ 346,613	\$ -	S -	\$ 3,216	\$ -

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Figures used in CA model based on historic loads scaled by 2021 monthly consumption forecasts See '2021 (Monthly Scaling)' tab. Results using annual scaling factors included for reference

	Residential	GS < 50 kW	GS > 50 < 1500	GS > 1500 < 5000	LU	Street Lighting	Sentinel Lighting	USL	standby
1 CP									
Transformation CP	498,428	117,727	464,152	110,159	84,759	-	-	1,383	412
Bulk Delivery CP	498,428	117,727	464,152	110,159	84,759	-	-	1,383	412
Total Sytem CP	498,428	117,727	464,152	110,159	84,759	-	-	1,383	412
4 CP									
Transformation CP	1,917,197	489,889	1,842,290	384,636	304,601	5,808	8	5,845	412
Bulk Delivery CP	1,917,197	489.889	1,842,290	384.636	304,601	5,808	8	5,845	412
Total Sytem CP	1,917,197	489,889	1,842,290	384,636	304,601	5,808	8	5,845	412
12 CP									
Transformation CP	4.905.357	1.316.881	5.119.659	1.090.578	884.827	31.331	53	18.342	642
Bulk Delivery CP	4.905.357	1.316.881	5.119.659	1.090.578	884,827	31,331	53	18,342	642
Total Sytem CP	4.905.357	1.316.881	5.119.659	1.090.578	884.827	31,331	53	18,342	642
1NCP Classification NCP from Load Da	575.660	145,496	498.153	125,654	95.229	6.444	15	1.896	1,152
Primary NCP	575,660	145,496	498,153	125,654	95,229	6,444	15	1,896	1,152
Line Transformer NCP	575,660	145,496	433,393	55,287	44,757	6.444	15	1,896	680
Secondary NCP	575,660	145,496	249,078	55,207		6,444	15	1,896	
occordary (voi	373,000	143,430	240,070	-	-	-	- 13 [1,030	
4 NCP	_	_	_	_	_	_	_	-	_
Classification NCP from Load Da	2,133,287	561,644	1,967,131	486,541	374,664	23,998	58	7,492	412
Primary NCP	2,133,287	561,644	1,967,131	486,541	374,664	23,998	58	7,492	412
Line Transformer NCP	2,133,287	561,644	1,711,403	214,078	176,092	23,998	58	7,492	243
Secondary NCP	2,133,287	561,644	983,566	-	-	23,998	58	7,492	-
		-	-	-	-	-	-	-	-
12 NCP	-	-	-	-	-	-	-		
Classification NCP from Load Da	-,,-	1,531,293	5,508,529	1,295,932	1,012,783	62,128	142	21,161	642
Primary NCP	5,508,979	1,531,293	5,508,529	1,295,932	1,012,783	62,128	142	21,161	642
Line Transformer NCP	5,508,979	1,531,293	4,792,421	570,210	476,008	62,128	142	21,161	379
Secondary NCP	5,508,979	1,531,293	2,754,265	-	-	62,128	142	21,161	_



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UPDATED FIXED / VARIABLE PROPORTION

2

1

3 1. INTRODUCTION

- 4 This Schedule explains how Hydro Ottawa's proposed rates have been designed to collect the
- 5 requested revenue requirement from 2021-2025. The current 2020 and proposed 2021-2025 Bill
- 6 Impacts and Tariffs of Rates and Charges are provided in **UPDATED** Exhibit 8-12-1: Bill Impact
- 7 Information.

8

- Hydro Ottawa is requesting approval of a Base Revenue Requirement in 2021 of \$203.9M and
- 10 Transformer Ownership Credit of \$1.06M for total revenue from distribution rates of \$204.9M.
- 11 After accounting for 2019 actuals, the utility is requesting approval of a Base Revenue
- 12 Requirement in 2021 of \$205.6M and Transformer Ownership Credit of \$1.06M for total revenue
- 13 from distribution rates of \$206.7M. The updated version of Table 1 summarizes the requested
- 14 revenue from distribution rates for the 2021-2025 rate period.

1516

Table 1 – AS ORIGINALLY SUBMITTED – Revenue from Distribution Rates 2021-2025

17 (\$'000s)

	2021	2022	2023	2024	2025
Base Revenue Requirement	\$203,908	\$220,926	\$232,378	\$241,254	\$247,596
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
REVENUE FROM DISTRIBUTION RATES ¹	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483

18

Table 1 – UPDATED FOR 2019 ACTUALS – Revenue from Distribution Rates 2021-2025

20 **(\$'000s)**

	2021	2022	2023	2024	2025
Base Revenue Requirement	205,624	220,142	\$232,891	\$241,817	\$248,217
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
REVENUE FROM DISTRIBUTION RATES ²	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104

²¹ Totals may not sum due to rounding.

²² Totals may not sum due to rounding.



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- 1 Please see **UPDATED** Exhibit 6-1-1: Calculation of Revenue Deficiency or Sufficiency for the
- 2 calculation of revenue required from distribution rates and of revenue deficiency.

3

4 2. FIXED/VARIABLE PROPORTION

- 5 Hydro Ottawa has determined the distribution fixed/variable split and charges for each rate
- 6 class. The updated version of Table 2 below provides the current and proposed fixed/variable
- 7 split. The updated versions of Tables 3 through 5 below provide the current and proposed
- 8 fixed/variable charges.



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Table 2 – AS ORIGINALLY SUBMITTED – Current and Proposed Fixed/Variable Split

	2	020	2	021	2	022	2	023	2	024	2	025
	Fixed	Variable	Fixed	Variable	Fixed	Variable	Fixed	Variable	Fixed	Variable	Fixed	Variable
Residential	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%
GS < 50 kW	25%	75%	25%	75%	25%	75%	26%	74%	26%	74%	26%	74%
GS 50 to 1,499 kW	20%	80%	17%	83%	16%	84%	16%	84%	16%	84%	16%	84%
GS 1,500 to 4,999 kW	30%	70%	31%	69%	30%	70%	29%	71%	28%	72%	27%	73%
Large Use	30%	70%	27%	73%	26%	74%	25%	75%	24%	76%	23%	77%
Unmetered Scattered Load	36%	64%	38%	62%	39%	61%	40%	60%	41%	59%	42%	58%
Sentinel Lighting	32%	68%	52%	48%	52%	48%	52%	48%	52%	48%	52%	48%
Street Lighting	44%	56%	64%	36%	65%	35%	66%	34%	68%	32%	69%	31%
Standby Power	29%	71%	28%	72%	28%	72%	28%	72%	28%	72%	28%	72%

2

3 Table 2 – UPDATED FOR 2019 ACTUALS – Current and Proposed Fixed/Variable Split

	2	020	2	021	2	022	2	023	2	024	2	025
	Fixed	Variable	Fixed	Variable	Fixed	Variable	Fixed	Variable	Fixed	Variable	Fixed	Variable
Residential	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%
GS < 50 kW	25%	75%	25%	75%	25%	75%	25%	75%	26%	74%	26%	74%
GS 50 to 1,499 kW	20%	80%	17%	83%	16%	84%	16%	84%	16%	84%	16%	84%
GS 1,500 to 4,999 kW	30%	70%	30%	70%	29%	71%	29%	71%	28%	72%	27%	73%
Large Use	30%	70%	26%	74%	25%	75%	25%	75%	24%	76%	23%	77%
Unmetered Scattered Load	36%	64%	38%	62%	39%	61%	40%	60%	41%	59%	42%	58%
Sentinel Lighting	32%	68%	52%	48%	52%	48%	52%	48%	52%	48%	52%	48%
Street Lighting	44%	56%	64%	36%	65%	35%	66%	34%	67%	33%	68%	32%
Standby Power	29%	71%	28%	72%	28%	72%	28%	72%	28%	72%	28%	72%



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1 Table 3 details current and proposed fixed and variable charges for 2020 and 2021 by rate

2 class.

3

4 Table 3 – AS ORIGINALLY SUBMITTED – Current and Proposed Fixed/Variable Charges

	2	020	2	021
	Fixed \$	Variable \$/kWh or \$/kW	Fixed \$	Variable \$/kWh or \$/kW
Residential	\$27.79	0.0000	\$30.33	0.0000
GS < 50 kW	\$19.32	0.0250	\$20.46	0.0264
GS 50 to 1,499 kW	\$200.00	4.8760	\$200.00	5.4567
GS 1,500 to 4,999 kW	\$4,193.93	4.4562	\$4,193.93	5.0861
Large Use	\$15,231.32	4.2422	\$15,231.32	5.2741
Unmetered Scattered Load	\$5.09	0.2420	\$5.55	0.0264
Sentinel Lighting	\$3.17	14.8502	\$3.88	18.1382
Street Lighting	\$0.91	6.3414	\$0.94	6.5889
Standby Power GS 50 to 1,499 kW	\$145.13	1.9370	\$158.38	2.1137
Standby Power GS 1,500 to 4,999 kW	\$145.13	1.7766	\$158.38	1.9388
Standby Power Large Use	\$145.13	1.9716	\$158.38	2.1515

5

6 Table 3 - UPDATED FOR 2019 ACTUALS - Current and Proposed Fixed/Variable Charges

	2	2020	2	021
	Fixed \$	Variable \$/kWh or \$/kW	Fixed \$	Variable \$/kWh or \$/kW
Residential	\$27.79	0.0000	\$30.59	0.0000
GS < 50 kW	\$19.32	0.0250	\$20.61	0.0267
GS 50 to 1,499 kW	\$200.00	4.8760	\$200.00	5.5079
GS 1,500 to 4,999 kW	\$4,193.93	4.4562	\$4,193.93	5.1438
Large Use	\$15,231.32	4.2422	\$15,231.32	5.3135
Unmetered Scattered Load	\$5.09	0.2420	\$5.60	0.0263
Sentinel Lighting	\$3.17	14.8502	\$3.91	18.3405
Street Lighting	\$0.91	6.3414	\$0.95	6.6719
Standby Power GS 50 to 1,499 kW	\$145.13	1.9370	\$159.73	2.1317
Standby Power GS 1,500 to 4,999 kW	\$145.13	1.7766	\$159.73	1.9553
Standby Power Large Use	\$145.13	1.9716	\$159.73	2.1698



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1 Table 4 outlines current and proposed fixed charges by rate class.

2

Table 4 – AS ORIGINALLY SUBMITTED – Current and Proposed Fixed Charges

	2020	2021	2022	2023	2024	2025
Residential	\$27.79	\$30.33	\$32.59	\$33.97	\$34.95	\$35.56
GS < 50 kW	\$19.32	\$20.46	\$22.13	\$23.28	\$24.13	\$24.78
GS 50 to 1,499 kW	\$200.00	\$200.00	\$215.04	\$224.97	\$231.93	\$237.17
GS 1,500 to 4,999 kW	\$4,193.93	\$4,193.93	\$4,375.49	\$4,450.59	\$4,467.90	\$4,467.90
Large Use	\$15,231.32	\$15,231.32	\$15,806.47	\$16,000.67	\$16,000.67	\$16,000.67
Unmetered Scattered Load	\$5.09	\$5.55	\$6.15	\$6.61	\$7.02	\$7.37
Sentinel Lighting	\$3.17	\$3.88	\$4.66	\$5.34	\$6.00	\$6.63
Street Lighting	\$0.91	\$0.94	\$1.02	\$1.08	\$1.13	\$1.16
Standby Power GS 50 to 1,499 kW	\$145.13	\$158.38	\$171.21	\$180.13	\$187.01	\$191.93
Standby Power GS 1,500 to 4,999 kW	\$145.13	\$158.38	\$171.21	\$180.13	\$187.01	\$191.93
Standby Power Large Use	\$145.13	\$158.38	\$171.21	\$180.13	\$187.01	\$191.93

4

5

Table 4 – UPDATED FOR 2019 ACTUALS – Current and Proposed Fixed Charges

	2020	2021	2022	2023	2024	2025
Residential	\$27.79	\$30.59	\$32.47	\$34.04	\$35.03	\$35.65
GS < 50 kW	\$19.32	\$20.61	\$22.03	\$23.31	\$24.16	\$24.82
GS 50 to 1,499 kW	\$200.00	\$200.00	\$212.51	\$223.60	\$230.55	\$235.78
GS 1,500 to 4,999 kW	\$4,193.93	\$4,193.93	\$4,325.38	\$4,424.57	\$4,442.54	\$4,442.54
Large Use	\$15,231.32	\$15,231.32	\$15,624.95	\$15,905.06	\$15,905.06	\$15,905.06
Unmetered Scattered Load	\$5.09	\$5.60	\$6.13	\$6.63	\$7.04	\$7.39
Sentinel Lighting	\$3.17	\$3.91	\$4.64	\$5.35	\$6.01	\$6.64
Street Lighting	\$0.91	\$0.95	\$1.02	\$1.08	\$1.13	\$1.16
Standby Power GS 50 to 1,499 kW	\$145.13	\$159.73	\$170.64	\$180.57	\$187.49	\$192.45
Standby Power GS 1,500 to 4,999 kW	\$145.13	\$159.73	\$170.64	\$180.57	\$187.49	\$192.45
Standby Power Large Use	\$145.13	\$159.73	\$170.64	\$180.57	\$187.49	\$192.45



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1 Table 5 summarizes current and proposed variable charges by rate class.

2

Table 5 – AS ORIGINALLY SUBMITTED – Current and Proposed Variable Charges

4 (\$/kWh or \$/kW)

	2020	2021	2022	2023	2024	2025
Residential	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GS < 50 kW	0.0250	0.0264	0.0285	0.0300	0.0311	0.0319
GS 50 to 1,499 kW	4.8760	5.4567	5.9173	6.2408	6.4843	6.6728
GS 1,500 to 4,999 kW	4.4562	5.0861	5.5680	5.9253	6.2100	6.3938
Large Use	4.2422	5.2741	5.7737	6.1456	6.4389	6.6278
Unmetered Scattered Load	0.2420	0.0264	0.0292	0.0314	0.0333	0.0350
Sentinel Lighting	14.8502	18.1382	21.7657	24.9250	27.9950	30.9073
Street Lighting	6.3414	6.5889	7.2384	7.6014	7.8514	8.0824
Standby Power GS 50 to 1,499 kW	1.9370	2.1137	2.2849	2.4041	2.4960	2.5617
Standby Power GS 1,500 to 4,999 kW	1.7766	1.9388	2.0958	2.2051	2.2894	2.3497
Standby Power Large Use	1.9716	2.1515	2.3257	2.4470	2.5405	2.6074

5

6

Table 5 – UPDATED FOR 2019 ACTUALS – Current and Proposed Variable Charges

7 (\$/kWh or \$/kW)

	2020	2021	2022	2023	2024	2025
Residential	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GS < 50 kW	0.0250	0.0267	0.0285	0.0302	0.0313	0.0321
GS 50 to 1,499 kW	4.8760	5.5079	5.9028	6.2610	6.5058	6.6955
GS 1,500 to 4,999 kW	4.4562	5.1438	5.5669	5.9564	6.2424	6.4281
Large Use	4.2422	5.3135	5.7512	6.1552	6.4494	6.6396
Unmetered Scattered Load	0.2420	0.0263	0.0288	0.0311	0.0330	0.0347
Sentinel Lighting	14.8502	18.3405	21.7549	25.0873	28.2183	31.1964
Street Lighting	6.3414	6.6719	7.2257	7.7183	7.9806	8.2236
Standby Power GS 50 to 1,499 kW	1.9370	2.1317	2.2774	2.4100	2.5025	2.5688
Standby Power GS 1,500 to 4,999 kW	1.7766	1.9553	2.0889	2.2105	2.2953	2.3561
Standby Power Large Use	1.9716	2.1698	2.3181	2.4530	2.5471	2.6146



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- 1 The updated version of Table 6 details current and proposed fixed charges by customer class
- 2 compared to upper and lower bounds (floor and ceiling) calculated on sheet O-2 in the updated
- 3 version of the Cost Allocation Model (UPDATED Attachment 7-1-1(A): OEB Workform 2021
- 4 Cost Allocation Model).

5

7

Table 6 – AS ORIGINALLY SUBMITTED – Comparison of 2020 Current and 2021-2025

Proposed Fixed Charges to Cost Allocation Floor and Ceiling

Customer	Cost All	ocation	2020	Proposed Rates							
Class	Floor	Ceiling	Current Rate	2021	2022	2023	2024	2025			
Residential	\$4.23	\$16.61	\$27.79	\$30.33	\$32.59	\$33.97	\$34.95	\$35.56			
GS < 50 kW	\$6.25	\$21.04	\$19.32	\$20.46	\$22.13	\$23.28	\$24.13	\$24.78			
GS > 50 to 1,499 kW	\$26.42	\$78.79	\$200.00	\$200.00	\$215.04	\$224.97	\$231.93	\$237.17			
GS > 1,500 to 4,999 kW	\$66.93	\$403.82	\$4,193.93	\$4,193.93	\$4,375.49	\$4,450.59	\$4,467.90	\$4,467.90			
Large Use	\$12.85	\$526.69	\$15,231.32	\$15,231.32	\$15,806.47	\$16,000.67	\$16,000.67	\$16,000.67			
Unmetered Scattered Load	\$0.05	\$8.58	\$5.09	\$5.55	\$6.15	\$6.61	\$7.02	\$7.37			
Sentinel Lighting	\$1.85	\$14.52	\$3.17	\$3.88	\$4.66	\$5.34	\$6.00	\$6.63			
Street Lighting	\$0.07	\$8.09	\$0.91	\$0.94	\$1.02	\$1.08	\$1.13	\$1.16			
Standby Power	\$84.58	\$124.83	\$145.13	\$158.38	\$171.21	\$180.13	\$187.01	\$191.93			



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Table 6 – UPDATED FOR 2019 ACTUALS – Comparison of 2020 Current and 2021-2025

2 Proposed Fixed Charges to Cost Allocation Floor and Ceiling

Customer	Cost All	ocation	2020	Proposed Rates							
Class	Floor	Ceiling	Current Rate	2021	2022	2023	2024	2025			
Residential	\$4.23	\$16.71	\$27.79	\$30.59	\$32.47	\$34.04	\$35.03	\$35.65			
GS < 50 kW	\$6.25	\$21.15	\$19.32	\$20.61	\$22.03	\$23.31	\$24.16	\$24.82			
GS > 50 to 1,499 kW	\$26.46	\$78.85	\$200.00	\$200.00	\$212.51	\$223.60	\$230.55	\$235.78			
GS > 1,500 to 4,999 kW	\$67.13	\$402.12	\$4,193.93	\$4,193.93	\$4,325.38	\$4,424.57	\$4,442.54	\$4,442.54			
Large Use	\$13.28	\$516.80	\$15,231.32	\$15,231.32	\$15,624.95	\$15,905.06	\$15,905.06	\$15,905.06			
Unmetered Scattered Load	\$0.05	\$8.70	\$5.09	\$5.60	\$6.13	\$6.63	\$7.04	\$7.39			
Sentinel Lighting	\$1.85	\$14.67	\$3.17	\$3.91	\$4.64	\$5.35	\$6.01	\$6.64			
Street Lighting	\$0.07	\$8.19	\$0.91	\$0.95	\$1.02	\$1.08	\$1.13	\$1.16			
Standby Power	\$84.69	\$124.86	\$145.13	\$159.73	\$170.64	\$180.57	\$187.49	\$192.45			

3

1

- 4 As of 2020, the Residential customer class is 100% fixed. This percentage will be held constant
- 5 for the duration of the 2021-2025 rate period. For all other classes, Hydro Ottawa's proposed
- 6 rate design is based on maintaining the fixed/variable split.

7

- 8 For customer classes where the 2020 fixed charge is higher than the calculated upper bound,
- 9 Hydro Ottawa proposes to maintain the current fixed charge for 2021. As a result, this adjusts
- 10 the variable charges for these classes to recover the proposed class-level revenue requirement
- in 2021. Specifically, these classes are the following: GS 50 to 1,499 kW; GS 1,500 to 4,999
- 12 kW; Large Use; and Standby Power. Starting in 2022, Hydro Ottawa proposes to maintain the
- 13 fixed/variable split in recovering revenue requirement. As a result, the fixed charge increases
- 14 after 2021.

- 16 The rate design is such that if the following year's percentage of revenue requirement from the
- 17 fixed charge being maintained would result in a lower fixed charge, then the previous year's
- 18 fixed charge is maintained. As a result, the proposed fixed charge for the Large Use customer



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1 class has been held constant for the years 2023-2025 and the fixed charge for GS 1,500 to

2 4,999 kW has been held constant in 2024-2025.

3

4 3. TRANSFORMER OWNERSHIP CREDIT

5 Hydro Ottawa is proposing to maintain the current Transformer Ownership Credit ("TOC") of

6 \$0.45/kW for customers who own their transformers until November 1, 2025.

7

8 As per section 2.5.5.4 of Hydro Ottawa's Conditions of Service ("COS") - Version 7, the TOC will

be discontinued for all customer-owned transformers as of November 1, 2025.3 In the 2015

10 update of the COS - Version 5, Hydro Ottawa notified customers of plans to discontinue the

11 TOC. Therefore, the utility requests that, effective November 1, 2025, no TOC will be extended

12 to customers with customer-owned transformers.

13

14 Effective April 1, 2015, customers with customer-owned transformers installed after November

15 1, 2000 were no longer eligible to receive the credit. The TOC will be discontinued for

16 customers who own transformers that were installed prior to November 1, 2000 either when the

17 customer-owned transformer has been replaced, or after November 1, 2025 – whichever occurs

18 first. As noted in the COS, with customers there will be no reconciliation of any debits or credits

19 with the previous TOCs.

²⁰ Hydro Ottawa Limited, *Conditions of Service*, Version 7 (April 1, 2019), Section 2.5.5.4, pages 55-56.



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UPDATED SPECIFIC SERVICE CHARGES

2

1

3 1. INTRODUCTION

4 Service charges apply to services that are over and above Hydro Ottawa's standard level of 5 service offerings and may result from a customer's action or inaction. The revenue from these 6 charges offset the total revenue requirement. Retail Services Charges are discussed in detail 7 within Exhibit 8-4-1: Retail Service Charges.

8

9 During 2019, Hydro Ottawa undertook a review of many routine service charges to ensure they 10 reflected the associated costs of providing services. Hydro Ottawa assessed certain repeated 11 requests by a small number of customers which result in resources being expended by the 12 utility. Service charges are proposed for such requests to encourage efficient use of Hydro 13 Ottawa's resources.

14

As part of this Application, Hydro Ottawa is proposing to revise some previously established service charges, introduce an additional service charge, eliminate one existing service charge, and rename certain service charges to more accurately reflect the services provided. Unless otherwise indicated, the proposed rate changes and additions shall be adjusted for the years 2022-2025 by an escalation rate of 2.51%, consistent with the escalation rate applied to Hydro Ottawa's 2022-2025 operations, maintenance and administration ("OM&A") expenses and the majority of its other revenue rates. For more details regarding this escalation factor, please see UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.

23

24 2. SUMMARY OF PROPOSED REVISED AND NEW SPECIFIC SERVICE CHARGES

Table 1 below summarizes the approved 2020 specific service charges ("SSCs") and the proposed revised and new SSCs, respectively, for the years 2021-2025. All of the proposed SSCs are to be included in Hydro Ottawa's Tariff of Rates and Charges.



1

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Table 1 – Revised Specific Service Charges

	2020	2021	2022	2023	2024	2025
Customer Administration						
Account Certificate	\$15.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Arrears Certificate	\$0.00	\$16.00	\$16.00	\$17.00	\$17.00	\$17.00
Easement Certificate for Unregistered Easements	\$0.00	\$25.00	\$26.00	\$27.00	\$27.00	\$28.00
Duplicate Invoices for Previous Billing	\$15.00	\$5.00	\$6.00	\$6.00	\$6.00	\$6.00
Special Billing Service, per hour	\$104.00	\$122.00	\$126.00	\$129.00	\$132.00	\$135.00
Credit Reference/Credit Check (+ credit agency costs)	\$15.00	\$16.00	\$16.00	\$17.00	\$17.00	\$17.00
Unprocessed Payment Charge (+ bank charges)	\$15.00	\$25.00	\$26.00	\$27.00	\$27.00	\$28.00
Account Set Up Charge/Change of Occupancy Charge	\$30.00	\$25.00	\$26.00	\$27.00	\$27.00	\$28.00
Reconnect at Meter (New Account):						
Regular Hours	\$65.00	\$67.00	\$69.00	\$71.00	\$72.00	\$74.00
After Regular Hours	\$185.00	\$100.00	\$103.00	\$106.00	\$108.00	\$111.00
Interval Meter - Field Reading	\$378.00	\$314.00	\$322.00	\$330.00	\$339.00	\$347.00
High Bill Investigation - If Billing is Correct	\$232.00	\$238.00	\$244.00	\$250.00	\$257.00	\$263.00
Non-Payment of Account						
Collection of Account Charge - No Disconnection	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Reconnect at Meter:						
Regular Hours	\$65.00	\$67.00	\$69.00	\$71.00	\$72.00	\$74.00
After Regular Hours	\$185.00	\$100.00	\$103.00	\$106.00	\$108.00	\$111.00
Reconnect at Pole:						
Regular Hours	\$185.00	\$250.00	\$257.00	\$263.00	\$270.00	\$277.00
After Regular Hours	\$415.00	\$426.00	\$437.00	\$448.00	\$459.00	\$470.00
Other						
Temporary Service - Install & Remove						
Overhead - no transformer	\$866.00	\$888.00	\$910.00	\$933.00	\$956.00	\$980.00
Underground - no transformer	\$1,256.00	\$1,288.00	\$1,320.00	\$1,353.00	\$1,387.00	\$1,422.00
Overhead - with transformer	\$3,087.00	\$3,164.00	\$3,243.00	\$3,324.00	\$3,407.00	\$3,493.00
Specific Charge to Access Power Poles - Wireline	\$53.00	\$45.39	\$46.53	\$47.70	\$48.90	\$50.12
Drycore Transformer Charge	8-7-1 (B)	8-7-1 (B)	8-7-1 (B)	8-7-1 (B)	8-7-1 (B)	8-7-1 (B)
ERF Administration Charge Without Account Set Up ¹	\$138.00	\$142.00	\$146.00	\$150.00	\$153.00	\$157.00

¹ If a customer requires account set-up, they will also be charged the Account Set Up Charge.



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1 3. REVISED SERVICE CHARGES

2 Hydro Ottawa is proposing to revise a number of SSCs.

3

4 3.1. REMOVAL OF ACCOUNT CERTIFICATE

- 5 Formally included together as Account Certificate for the 2016-2020 period, Hydro Ottawa
- 6 proposes to separate out the Easement Certificate for Unregistered Easements from the
- 7 Account Certificate Charge and rename the Account Certificate Charge to Arrears Certificate,
- 8 for the 2021-2025 period. These two services are distinctly different with the easement portion
- 9 being more labour-intensive and in higher demand. The separation will allow for pricing to better
- 10 reflect the associated cost of related services.

11

12 3.1.1. Arrears Certificate

- 13 For the Arrears Certificate service, Hydro Ottawa proposes to apply the standard provincial rate
- 14 for 2020 and make annual adjustments by the escalation increases starting in 2021 through
- 15 2025.

16

17 3.1.2 Easement Certificate for Unregistered Easements

- 18 For the Easement Certificate for Unregistered Easements service, a new rate of \$25 will be
- 19 introduced for 2021 and increased by the escalation increase through to 2025. The Easement
- 20 Certificate for Unregistered Easements service involves researching and presenting findings to
- 21 the customer. Typically this service varies in terms of resource effort and time. Accordingly, the
- 22 proposed charge is based upon Hydro Ottawa's work for others hourly labour rate extended by
- 23 an average time required to complete the request. This revised rate is reflective of the cost to
- 24 render this service. Services of this nature were historically combined with the Arrears
- 25 Certificate; however, the costs to Hydro Ottawa were not fully covered.

26

27 3.2. DUPLICATE INVOICES FOR PREVIOUS BILLING

- 28 Hydro Ottawa is proposing to reduce the current 2020 rate of \$15 to \$5 in 2021 and increase by
- 29 the escalation increases through to 2025. This is due to the availability of



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1 electronically-formatted customer bills (from 2014 onwards) which enable duplicate bills to be

2 disseminated by email rather than external mail. This eliminates the need for printing and

3 postage, which is reflected in the reduced rate. Customers are also encouraged to use

4 MyAccount (the utility's online customer service portal) where they are able to view past bills at

5 no cost.

6

7 3.3. SPECIAL BILLING SERVICE

8 Special Billing Service (formerly Request for other Billing Information) was introduced as part of

9 the 2016-2020 rate application.² It was applied to all requests for customized billing information

that involves sourcing, compiling, and presenting several months or years of billing information

11 for customers or their agents. Hydro Ottawa is proposing a rate of \$122 in 2021 and to apply

2 annual adjustments by the escalation increases through to 2025. This rate reflects the labour

13 time involved in providing these services and associated labour rate.

14

15 3.4. UNPROCESSED PAYMENT CHARGE

16 To date, Hydro Ottawa has been using the standard 2006 Electricity Distribution Rate ("EDR")

17 Handbook rate. However, based on an internal costing exercise, a rate change is being

18 requested. Hydro Ottawa is proposing to increase the current 2020 rate of \$15 to \$25 in 2021 to

9 offset the internal costs of processing a non-sufficient funds ("NSF") payment, including fees

20 and labour, and to adjust by the escalation increases on an annual basis through to 2025.

21

22 3.5. ACCOUNT SET UP CHARGE

23 As part of the review of this service charge, it was determined that Hydro Ottawa is able to

4 reduce this rate. Hydro Ottawa is proposing to reduce the current 2020 rate of \$30 to \$25 in

25 2021 and increase by the escalation increases through to 2025. Labour savings reflected in the

26 new rate are driven by a streamlined customer move process which facilitates the ability to have

27 50% of move requests completed by the Contact Centre.

Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application, EB-2015-0004 (April 29, 2015).



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1 3.6. COLLECTION OF ACCOUNT CHARGE

2 The Collection of Account charge was removed July 1, 2019, in accordance with the

3 implementation of Phase 1 of the OEB's review of Customer Service Rules.3

4

5 3.7. RECONNECT AT METER AFTER REGULAR HOURS

6 As part of the review of this service charge, it was determined that due to changing technology

7 Hydro Ottawa is able to reduce this rate from \$185 in 2020 to \$100 in 2021. Using Honeywell

8 (formerly Elster) technology, Hydro Ottawa can now remotely reconnect some meters through

9 its Advanced Metering Infrastructure ("AMI") equipped with the EnergyAxis Management

10 System ("EA MS"). These meters are installed in hard-to-access locations and premises that

11 have high Move-In/Move-Out trends. The operational efficiencies, including the elimination of a

12 trip to a customer's premise to physically reconnect service, have resulted in labour and fleet

13 savings. These savings are reflected in the new rate.

14

15 3.8. RECONNECT AT POLE DURING REGULAR HOURS

To date, Hydro Ottawa has been using the standard 2006 EDR Handbook rate. However, based on an internal costing exercise an increase to \$250 is being requested. Hydro Ottawa is

18 proposing to increase the current 2020 rate of \$185 to \$250 in 2021 and adjust by the

9 escalation increases on an annual basis through to 2025. The rate increase is sought to recover

0 associated internal costs of labour and fleet. Reconnection at poles is more costly than at the

1 meter, as it requires two highly-qualified employees due to the complexity and safety risks of

22 pole work.

23

24 3.9. INTERVAL METER - FIELD READING

25 As part of its last rebasing application, Hydro Ottawa requested the Interval Meter Field Reading

26 Charge. As outlined in the utility's Conditions of Service, interval-metered customers are

27 responsible for providing a dedicated telephone line for remote meter data interrogation. Should

28 this dedicated telephone line become defective, the customer is responsible for arranging the

-

³ Ontario Energy Board, *Decision and Order*, EB-2017-0183 (September 6, 2018), page 49.



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1 necessary repairs within seven business days upon being notified by Hydro Ottawa. After this

2 timeframe, if the defect remains and requires Hydro Ottawa to visit the metering site to obtain a

3 scheduled reading, an interval meter field reading charge will apply to each related visit. This

4 charge is intended to promote timely telephone communication line repairs and, when

5 necessary, recover the costs associated with interval metering field readings due to unresolved

6 telephone line defects.

7

8 Hydro Ottawa has since partnered with a cellular carrier to provide a cellular modem that will

9 remove the need for interval meter phone lines in the future. As this initiative is being phased

10 in, Hydro Ottawa may, in the short term, still need to visit some interval-metered premises to

11 take a meter reading, when the phone lines are inoperable.

12

13 Hydro Ottawa is proposing to reduce the current 2020 rate of \$378 to \$314 in 2021. The main

14 driver of the reduced rate is alignment with the business process to provide a Hydro Ottawa

15 representative during the repair of the phone line without charge. This visit would occur whether

16 the repair occurred in a timely manner or not. As such, the utility no longer proposes to include

7 the cost of this visit in the Interval Meter Field Reading charge.

18

19 3.10. SPECIFIC ACCESS TO POWER POLES - WIRELINE ATTACHMENTS

20 Hydro Ottawa currently charges 11 telecommunications companies, two municipalities, and one

21 local distribution company ("LDC") for third-party pole attachments. The current Hydro

22 Ottawa-specific pole attachment rate of \$53.00 per attachment per pole was approved by the

23 OEB on February 26, 2016, with no adjustment for inflation for 2016-2020.4 Effective January 1,

24 2021, Hydro Ottawa proposes to use the OEB generic rate.

25

26 The OEB's standard rate of \$43.63 per attachment per pole was established as OEB policy in

27 2018, with an effective date of January 1, 2019.5 In its policy decision, the OEB concluded that

⁴ Ontario Energy Board, *Decision and Rate Order on Pole Attachment Charge*, EB-2015-0004 (February 25, 2016), page 1.

⁵ Ontario Energy Board, *Report of the Ontario Energy Board - Wireline Pole Attachment Charges*, EB-2015-0304 (March 22, 2018), page 51.



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- 1 the rate will be adjusted annually on January 1st of each year based on the OEB's inflation
- 2 factor. For LDCs with third-party power attachments on Hydro Ottawa-owned poles, the current
- 3 OEB-approved Hydro One Networks Inc. Specific Charge for LDCs Access to Power Poles
- 4 rates will be charged.6

5

- 6 For the purpose of calculating revenue requirement, Hydro Ottawa has used the OEB-approved
- 7 2020 inflation factor of 2.0% to adjust the 2020 generic rate for 2021.7 For 2022-2025 rates,
- 8 Hydro Ottawa increased the calculated 2021 rate using the escalation rate of 2.51%, consistent
- 9 with the escalation rate applied to Hydro Ottawa's 2022-2025 OM&A expenses and the majority
- 10 of other revenue rates as part of this Application. For more details regarding this escalation
- 11 factor, please see **UPDATED** Exhibit 1-1-10: Alignment with the Renewed Regulatory
- 12 Framework.

13

14 3.11. DRY CORE TRANSFORMER CHARGE

- 15 The dry core transformer charge is applied to recover unmetered energy lost in the operation of
- 16 a dry core transformer. A specific charge is calculated for each transformer based on the
- 17 Canadian Standards Association standard C802-94 ("CSA-C802-94").8 For transformer sizes
- 18 not included in CSA-C802-94, there are no load losses, load losses, or associated costs that are
- 19 interpolated based on the transformer size. Hydro Ottawa is proposing to calculate the dry core
- 20 transformer loss charge for any new size of transformer upon connection, based on the dry core
- 21 rate design.

- 23 For 2021-2025, Hydro Ottawa has included rates for new sizes of transformers that are currently
- in the utility's service area, as well as sizes in CSA-C802-94 that were not previously included.
- 25 These rates are outlined in <mark>UPDATED</mark> Attachment 8-7-1(B): Dry Core Calculations. The rates
- 26 have been set based on the proposed 2021-2025 distribution rates of the >50kW commercial

⁶ Ontario Energy Board, *Decision and Order*, EB-2019-0043 (December 17,2019) Schedule A, page 15.

⁷ https://www.oeb.ca/industry/applications-oeb/electricity-distribution-rates/2020-electricity-distribution-rate#updates.

⁸ Standards Council of Canada, "CAN/CSA-C802-94 - Maximum Losses for Distribution, Power and Dry-Type Transformers" http://www.scc.ca/en/standardsdb/standards/5579



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1 classes, as well as the forecasted Regulated Price Plan ("RPP"), transmission, low voltage, and

2 regulatory rates.

3

- 4 Hydro Ottawa is proposing to adjust these rates on an annual basis to reflect any changes in the
- 5 distribution, RPP, and transmission rates. In addition, Regulatory rates will be updated as per
- 6 any applicable OEB Decision and/or Order.

7

3 4. REVISED GENERATOR CHARGES & STANDARD SUPPLY SERVICE CHARGES

9 4.1. GENERATOR FIXED SERVICE CHARGES

10 Hydro Ottawa is proposing to revise the MicroFIT, Net Metering, FIT, and HCI/RESOP/HESOP

- 11 charges as part of this Application. The revised charges reflect a reassessment of the costs
- 12 associated with managing these accounts on a monthly basis. Hydro Ottawa further proposes
- 13 that the proposed 2021 charges be scaled annually by 2.51% for 2022-2025. As noted above,
- 14 the 2.51% is consistent with the escalation rate applied to Hydro Ottawa's 2022-2025 OM&A
- 15 expenses and the majority of other revenue rates as part of this Application.

16

17 Table 2 summarizes the approved Generator Service charges for 2020 and the proposed

18 Generator Service charges for 2021-2025.

1920

Table 2 – Generator Service Charges

	2020	2021	2022	2023	2024	2025
MicroFIT and Net-Metering ERF	\$19.00	\$14.00	\$15.00	\$15.00	\$15.00	\$16.00
FIT ERF	\$129.00	\$76.00	\$78.00	\$80.00	\$82.00	\$84.00
HCI, RESOP, Other ERF	\$281.00	\$314.00	\$322.00	\$330.00	\$338.00	\$347.00

21

22 4.2. STANDARD SUPPLY SERVICE CHARGE

- 23 Hydro Ottawa is proposing to increase the Standard Supply Service Administrative Charge
- 24 ("SSS Charge") rate to align with the 2021-2025 Retail Services Distributor-consolidated billing
- 25 monthly charge. The corresponding increase will result in customers paying an equal service



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- 1 charge, regardless of electricity service provider, and will maintain the pricing between Hydro
- 2 Ottawa and Retailers with respect to this service.

3

- 4 On November 28, 2019, the OEB released the 2020 Retailer Service Rates, with the inflationary
- 5 adjustment. Hydro Ottawa has used the OEB-approved 2020 inflation factor of 2.0% to adjust
- 6 the rate for 2021, and increased the rate in 2022-2025 using the escalation rate of 2.51%,
- 7 consistent with the escalation rate applied throughout this Application.

8

- 9 Table 3 provides the approved 2020 SSS Charge and summarizes the proposed revised SSS
- 10 Charge for 2021-2025.

1112

Table 3 – SSS Charges

	2020	2021	2022	2023	2024	2025
Standard Supply Service Administrative Charge	\$0.25	\$0.62	\$0.64	\$0.66	\$0.68	\$0.70

13 14

15 5. NEW SERVICE CHARGES

16 5.1. EASEMENT CERTIFICATE FOR UNREGISTERED EASEMENTS

- 17 Formerly included with the Account Certificate for the 2016-2020 period, Hydro Ottawa wishes
- 18 to separate the Easement Certificate for Unregistered Easements from the former Account
- 19 Certificate for the 2021-2015 period.

- 21 For the Easement Certificate for Unregistered Easements, Hydro Ottawa proposes a new rate
- 22 of \$25 for the 2021-2025 period which is reflective of the cost to offer this service. The
- 23 Easement Certificate for Unregistered Easements service involves researching and presenting
- 24 findings. Services of this nature were historically lumped in with the Account Certificate;
- 25 however, the costs to Hydro Ottawa were not sufficiently recovered. Typically, these services

⁹ Ontario Energy Board, *Decision and Order in the matter of the inflationary adjustment effective January 1, 2020 for energy retailer service charges for electricity distributors*, EB-2019-0280 (November 28, 2019), Schedule A.

¹⁰ https://www.oeb.ca/industry/applications-oeb/electricity-distribution-rates/2020-electricity-distribution-rate#updates.



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1 vary in terms of resource effort and time. The proposed charge is therefore based upon Hydro

2 Ottawa's work for others hourly labour rate.

3

4 5.2. SPECIFIC ACCESS TO POWER POLES - WIRELESS ATTACHMENTS

5 On January 28, 2016, the OEB released a Decision and Order authorizing electricity distributors

6 to charge market rates for wireless pole attachments.11 Hydro Ottawa entered into its first

7 third-party wireless pole attachment agreement in the final quarter of 2018. Hydro Ottawa will

8 continue to follow the direction in the OEB's decision when entering into any new wireless pole

9 attachment agreements during the 2021-2025 period.

10

11 6. REVISED SERVICE CHARGE DESCRIPTIONS

12 6.1. ACCOUNT CERTIFICATE

13 Hydro Ottawa is currently authorized to charge for the production of an arrears certificate. This

14 service, as well as an unregistered easements certificate, are typically received prior to closing

15 a real estate transaction. As such, both services are provided under the existing Account

16 Certificate Charge of \$15 for 2016-2020, regardless of whether one or both services are

17 provided. In more recent years, requests for an arrears certificate have declined. Hydro Ottawa

18 wishes to rename this service charge to Arrears Certificate to better reflect the service provided

9 by proposing to eliminate the Account Certificate Charge. Hydro Ottawa plans to apply the

20 current rate of \$15 and adjust for escalation increases in 2021-2025.

21

22 6.2. ENERGY RESOURCE FACILITY ADMINISTRATION CHARGE

The Energy Resource Facility Administration Charge - Without Account Set Up (One Time) is

24 charged when there is an assignment of contracts which require legal services and service

25 entrance assessments on the part of Hydro Ottawa. This charge applies to new generation

26 facilities associated with a new or existing generation account, regardless of size.

Ontario Energy Board, Decision and Order - Amending Rate-Regulated Electricity Distributor Licences to Authorize
 Market Rates for Wireless Pole Attachments, EB-2016-0015 (January 28, 2016).



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- 1 Where a generation account does not already exist, the Account Set Up charge will also be
- 2 applied. Accordingly, Hydro Ottawa likewise proposes to remove the Energy Resource Facility
- 3 Administration Charge With Account Set Up (One Time) from being listed separately on its
- 4 Tariff of Rates and Charges. As a result, Hydro Ottawa proposes that the description of Energy
- 5 Resource Facility Administration Charge Without Account Set Up (One Time) be changed to
- 6 Energy Resource Facility Administration Charge (Account Set Up Charge separately if
- 7 applicable).

8

- 9 The revised Energy Resource Facility Administration Charges reflect a reassessment of the
- 10 costs associated with establishing these accounts. Hydro Ottawa further proposes that the 2021
- 11 charges be scaled annually by 2.51% for 2022-2025. As noted above, this is consistent with the
- 12 escalation rate applied to Hydro Ottawa's 2022-2025 OM&A expenses and the majority of other
- 13 revenue rates as part of this Application.

14

15 7. SERVICE CHARGE CALCULATIONS

- 16 In accordance with the methodology outlined in the EDR Handbook, the 2021 service charge
- 17 calculations are provided in Attachment 8-7-1(A): Proposed and New Specific Service Charge
- 18 Calculations.

19

20 8. SERVICE CHARGE REVENUES

- 21 A schedule of the associated revenues from all SSCs for 2021-2025 is provided in UPDATED
- 22 Exhibit 3-2-1: Other Revenue Summary.

Transformers	No Load Loss (W)	Load Loss (W)	Monthly No Load Loss (kW)	Monthly No Load Loss (kWH)	Monthly Load Loss (kW)	Monthly Load Loss (kWH)	Monthly Total Loss (kW)	Monthly Total Loss (kWH)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh**	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates									\$5.3446	\$0.1329		\$5.3217	
25 KVA 1 PH, 1.2kV BIL	150	900	0.113	82	0.048	9	0.161	91	\$0.86	\$12.08	\$12.94	\$0.86	\$13.79
37.5 KVA 1 PH, 1.2kV BIL	200	1200	0.150	110	0.064	12	0.214	121	\$1.15	\$16.10	\$17.25	\$1.14	\$18.39
50 KVA 1 PH, 1.2kV BIL	250	1600	0.188	137	0.086	16	0.273	152	\$1.46	\$20.26	\$21.72	\$1.45	\$23.17
75 KVA 1 PH, 1.2kV BIL	350	1900	0.263	192	0.102	18	0.364	210	\$1.95	\$27.92	\$29.87	\$1.94	\$31.81
100 KVA 1 PH, 1.2kV BIL	400	2600	0.300	219	0.139	25	0.439	244	\$2.35	\$32.47	\$34.81	\$2.34	\$37.15
112.5 kVA 1 PH, 1.2kV BIL	447	2936	0.335	245	0.157	29	0.492	273	\$2.63	\$36.32	\$38.95	\$2.62	\$41.57
*150 KVA 1 PH, 1.2kV BIL	525	3500	0.394	287	0.187	34	0.581	321	\$3.11	\$42.73	\$45.83	\$3.09	\$48.93
167 KVA 1 PH, 1.2kV BIL	650	4400	0.488	356	0.236	43	0.723	399	\$3.86	\$52.99	\$56.85	\$3.85	\$60.70
175 KVA 1PH, 1.2kV BIL	665	4496	0.499	364	0.241	44	0.740	408	\$3.95	\$54.20	\$58.15	\$3.94	\$62.09
*200 KVA 1 PH, 1.2kV BIL	696	4700	0.522	381	0.252	46	0.774	427	\$4.14	\$56.72	\$60.86	\$4.12	\$64.97
*225 KVA 1 PH, 1.2kV BIL	748	5050	0.561	410	0.270	49	0.831	459	\$4.44	\$60.96	\$65.40	\$4.42	\$69.82
250 KVA 1 PH, 1.2kV BIL	800	5400	0.600	438	0.289	53	0.889	491	\$4.75	\$65.19	\$69.95	\$4.73	\$74.68
333 KVA 1PH 1.2kV BIL	1000	6600	0.750	548	0.353	64	1.103	612	\$5.90	\$81.30	\$87.19	\$5.87	\$93.07
*10 kVA 3 PH, 1.2kV BIL	83	400	0.062	45	0.021	4	0.084	49	\$0.45	\$6.56	\$7.00	\$0.45	\$7.45
*15 KVA 3 PH, 1.2kV BIL	125	650	0.094	68	0.035	6	0.129	75	\$0.69	\$9.94	\$10.62	\$0.68	\$11.31
30 kVA 3PH, 1.2kV BIL	250	1300	0.188	137	0.070	13	0.257	150	\$1.37	\$19.87	\$21.25	\$1.37	\$22.61
45 KVA 3 PH, 1.2kV BIL	300	1800	0.225	164	0.096	18	0.321	182	\$1.72	\$24.16	\$25.87	\$1.71	\$27.58
75 KVA 3 PH, 1.2kV BIL	400	2400	0.300	219	0.129	23	0.429	242	\$2.29	\$32.21	\$34.50	\$2.28	\$36.78
112.5 KVA 3 PH, 1.2kV BIL	600	3400	0.450	329	0.182	33	0.632	362	\$3.38	\$48.05	\$51.43	\$3.36	\$54.80
150 KVA 3 PH, 1.2kV BIL	700	4500	0.525	383	0.241	44	0.766	427	\$4.09	\$56.75	\$60.85	\$4.08	\$64.92
*175 KVA 3PH, 1.2kV BIL	766 833	4767 5033	0.575	419	0.255 0.270	46 49	0.830 0.894	466 505	\$4.43	\$61.90 \$67.12	\$66.34	\$4.42	\$70.75
*200 KVA 3PH, 1.2kV BIL	900	5300	0.625 0.675	456 493	0.270	52	0.894	544	\$4.78 \$5.12	\$72.34	\$71.90 \$77.46	\$4.76 \$5.10	\$76.66 \$82.57
225 KVA 3 PH, 1.2kV BIL 300 KVA 3 PH, 1.2kV BIL	1100	6300	0.675	602	0.284	52 61	1.162	664	\$5.12 \$6.21	\$72.34 \$88.19	\$94.40	\$5.10 \$6.19	\$100.58
*450 KVA 3PH, 1.2kV BIL	2075	7275	1.556	1136	0.337	71	1.102	1.207	\$10.40	\$160.39	\$170.79	\$10.36	\$100.50
500 KVA 3 PH. 95kV BIL	2400	7600	1.800	1314	0.407	74	2.207	1,388	\$11.80	\$184.46	\$196.25	\$11.74	\$208.00
750 KVA 3 PH, 95kV BIL	3000	12000	2.250	1643	0.643	117	2.893	1,759	\$15.46	\$233.81	\$249.27	\$15.39	\$264.66
1000 KVA 3 PH, 95kV BIL	3400	13000	2.550	1862	0.696	126	3.246	1,733	\$17.35	\$264.20	\$281.55	\$17.28	\$298.83
1500 KVA 3 PH, 95kV BIL	4500	18000	3.375	2464	0.096	175	4.339	2.639	\$23.19	\$350.71	\$373.90	\$23.09	\$396.99
2000 KVA 3 PH, 95kV BIL	5400	21000	4.050	2957	1.125	204	5.175	3,161	\$27.66	\$420.07	\$447.73	\$27.54	\$475.27
2500 KVA 3 PH, 95kV BIL	6500	25000	4.050	3559	1.125	243	6.214	3,161	\$27.66	\$420.07 \$505.29	\$447.73 \$538.50	\$33.07	\$571.56
3000 KVA 3PH, 95kV BIL	7700	29000	4.875 5.775	3559 4216	1.553	282	7.328	3,802 4,498	\$39.17	\$505.29 \$597.77	\$636.94	\$33.07	\$675.94
3750 KVA 3PH, 95kV BIL	9500 11000	35000 39000	7.125 8.250	5201 6023	1.874 2.088	341 379	8.999 10.338	5,542 6,402	\$48.10 \$55.26	\$736.50 \$850.82	\$784.60 \$906.08	\$47.89 \$55.02	\$832.49
5000 KVA 3PH, 95kV BIL	11000	29000	0.200	0023	2.000	3/8	10.338	0,402	φ33.20	φουυ.οΖ	\$90.00K	φ00.02	\$961.09

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use

Average load factor = 0.46 average loss factor = 0.2489 Loss factor = 0.15*load factor + 0.85(load factor)2

Average perunit loading squared=0.0714; per unit loading=0.2672

Monthly No Load Loss (kW) = no load loss (kW) * .75 (responsibility factor)

Monthly No Load Loss (kWh) = monthly no load loss (kW) * 8760/12

Monthly Load loss (kW) = load loss (kW)*average perunit loading squared (.0714)*.75 (responsibility factor?)

Monthly Load loss (kWh) = monthly load loss (kW) *8760/12*average loss factor (.2489)

Responsibility Factor= (load at system peak/peak load)2= the ratio of the transformer load at system peak to the peak load, all squared=.75 Utilization Factor = peak load/rated load = 1

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	LV	Network	Line & Transmission	V	ariable
GS 50 to 1,499 kW	0.02434	2.9017		2.0474	5.5079
GS 1,500 to 4,999 kW	0.02601	3.0128		2.1882	5.1438
Large Use	0.02929	3.3399		2.4642	5.3135
Tier 1	0.119				
Tier 2	0.139				
WMSR	0.0030				
CBR	0.0004				
RRRP	0.0005				

^{*}For transformer sizes not included in the CSA standard, no load losses, load losses and associated costs are interpolated based on transformer size

^{**} Cost of Energy and Wholesale Market per kWh contains Nov 1, 2019 RPP Tiered Pricing, WMRS Pricing to be effective January 1, 2019

Transformers	No Load Loss (W)	Load Loss (W)	Monthly No Load Loss (kW)	Monthly No Load Loss (kWH)	Monthly Load Loss (kW)	Monthly Load Loss (kWH)	Monthly Total Loss (kW)	Monthly Total Loss (kWH)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh**	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates									\$5.3450	\$0.1329		\$5.7403	
25 KVA 1 PH, 1.2kV BIL	150	900	0.113	82	0.048	9	0.161	91	\$0.86	\$12.08	\$12.94	\$0.92	\$13.86
37.5 KVA 1 PH, 1.2kV BIL	200	1200	0.150	110	0.064	12	0.214	121	\$1.15	\$16.10	\$17.25	\$1.23	\$18.48
50 KVA 1 PH, 1.2kV BIL	250	1600	0.188	137	0.086	16	0.273	152	\$1.46	\$20.26	\$21.72	\$1.57	\$23.29
75 KVA 1 PH, 1.2kV BIL	350	1900	0.263	192	0.102	18	0.364	210	\$1.95	\$27.92	\$29.87	\$2.09	\$31.96
100 KVA 1 PH, 1.2kV BIL	400	2600	0.300	219	0.139	25	0.439	244	\$2.35	\$32.47	\$34.81	\$2.52	\$37.34
112.5 kVA 1 PH, 1.2kV BIL	447	2936	0.335	245	0.157	29	0.492	273	\$2.63	\$36.32	\$38.95	\$2.83	\$41.78
*150 KVA 1 PH, 1.2kV BIL	525	3500	0.394	287	0.187	34	0.581	321	\$3.11	\$42.73	\$45.83	\$3.34	\$49.17
167 KVA 1 PH, 1.2kV BIL	650	4400	0.488	356	0.236	43	0.723	399	\$3.87	\$52.99	\$56.85	\$4.15	\$61.00
175 KVA 1PH, 1.2kV BIL	665	4496	0.499	364	0.241	44	0.740	408	\$3.95	\$54.20	\$58.15	\$4.25	\$62.40
*200 KVA 1 PH, 1.2kV BIL	696	4700	0.522	381	0.252	46	0.774	427	\$4.14	\$56.72	\$60.86	\$4.44	\$65.30
*225 KVA 1 PH, 1.2kV BIL	748	5050	0.561	410	0.270	49	0.831	459	\$4.44	\$60.96	\$65.40	\$4.77	\$70.17
250 KVA 1 PH, 1.2kV BIL	800	5400	0.600	438	0.289	53	0.889	491	\$4.75	\$65.19	\$69.95	\$5.10	\$75.05
333 KVA 1PH 1.2kV BIL	1000	6600	0.750	548	0.353	64	1.103	612	\$5.90	\$81.30	\$87.19	\$6.33	\$93.53
*10 kVA 3 PH, 1.2kV BIL	83	400	0.062	45	0.021	4	0.084	49	\$0.45	\$6.56	\$7.00	\$0.48	\$7.48
*15 KVA 3 PH, 1.2kV BIL	125	650	0.094	68	0.035	6	0.129	75	\$0.69	\$9.94	\$10.62	\$0.74	\$11.36
30 kVA 3PH, 1.2kV BIL	250	1300	0.188	137	0.070	13	0.257	150	\$1.37	\$19.87	\$21.25	\$1.48	\$22.72
45 KVA 3 PH, 1.2kV BIL	300	1800	0.225	164	0.096	18	0.321	182	\$1.72	\$24.16	\$25.87	\$1.84	\$27.72
75 KVA 3 PH, 1.2kV BIL	400	2400	0.300	219	0.129	23	0.429	242	\$2.29	\$32.21	\$34.50	\$2.46	\$36.96
112.5 KVA 3 PH, 1.2kV BIL	600	3400	0.450	329	0.182	33	0.632	362	\$3.38	\$48.05	\$51.43	\$3.63	\$55.06
150 KVA 3 PH, 1.2kV BIL	700	4500	0.525	383	0.241	44	0.766	427	\$4.09	\$56.75	\$60.85	\$4.40	\$65.24
*175 KVA 3PH, 1.2kV BIL	766	4767	0.575	419	0.255	46	0.830	466	\$4.44	\$61.90	\$66.34	\$4.76	\$71.10
*200 KVA 3PH, 1.2kV BIL	833	5033	0.625	456	0.270	49	0.894	505	\$4.78	\$67.12	\$71.90	\$5.13	\$77.03
225 KVA 3 PH, 1.2kV BIL 300 KVA 3 PH, 1.2kV BIL	900 1100	5300 6300	0.675 0.825	493 602	0.284 0.337	52 61	0.959 1.162	544 664	\$5.12 \$6.21	\$72.34 \$88.19	\$77.46 \$94.40	\$5.50 \$6.67	\$82.97 \$101.07
*450 KVA 3 PH, 1.2kV BIL	2075	7275	1.556	1136	0.337	71	1.162	1,207	\$10.40	\$160.39	\$170.79	\$6.67 \$11.17	\$101.07
500 KVA 3PH, 1.2kV BIL	2400	7600	1.800	1314	0.390	74	2.207	1,207	\$10.40 \$11.80	\$184.46	\$170.79	\$11.17	\$208.92
750 KVA 3 PH, 95kV BIL	3000	12000	2.250	1643	0.407	117	2.207	1,388	\$11.80 \$15.46	\$233.81	\$196.25	\$16.60	\$208.92
	3400	13000	2.250	1862	0.643	126	3.246	1,759	\$17.35	\$233.81	\$249.27 \$281.55	\$18.63	\$300.19
1000 KVA 3 PH, 95kV BIL 1500 KVA 3 PH, 95kV BIL	4500	18000	3.375	2464	0.696	175	4.339	2,639	\$17.35 \$23.19	\$264.20	\$281.55		
												\$24.91	\$398.81
2000 KVA 3 PH, 95kV BIL	5400	21000	4.050	2957	1.125	204	5.175	3,161	\$27.66	\$420.07	\$447.73	\$29.70	\$477.44
2500 KVA 3 PH, 95kV BIL	6500	25000	4.875	3559	1.339	243	6.214	3,802	\$33.21	\$505.29	\$538.50	\$35.67	\$574.17
3000 KVA 3PH, 95kV BIL	7700	29000	5.775	4216	1.553	282	7.328	4,498	\$39.17	\$597.77	\$636.94	\$42.06	\$679.01
3750 KVA 3PH, 95kV BIL	9500	35000	7.125	5201	1.874	341	8.999	5,542	\$48.10	\$736.50	\$784.61	\$51.66	\$836.26
5000 KVA 3PH, 95kV BIL	11000	39000	8.250	6023	2.088	379	10.338	6,402	\$55.26	\$850.82	\$906.08	\$59.35	\$965.4

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use

Average load factor = 0.46 average loss factor = 0.2489

Loss factor = 0.15*load factor + 0.85(load factor)2

Monthly No Load Loss (kW) = no load loss (kW) * .75 (responsibility factor) Monthly No Load Loss (kWh) = monthly no load loss (kW) * 8760/12

Monthly Load loss (kW) = load loss (kW)*average perunit loading squared (.0714)*.75 (responsibility factor?)

Monthly Load loss (kWh) = monthly load loss (kW) *8760/12*average loss factor (.2489)

Responsibility Factor= (load at system peak/peak load)2= the ratio of the transformer load at system peak to the peak load, all squared=.75 Utilization Factor = peak load/rated load = 1

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	LV	Network	Line & Transmission	Var	riable
GS 50 to 1,499 kW	0.02465	2.9017		2.0474	5.9028
GS 1,500 to 4,999 kW	0.02635	3.0128		2.1882	5.5669
Large Use	0.02967	3.3399		2.4642	5.7512
Tier 1 Tier 2	0.119 0.139				
WMSR CBR	0.0030 0.0004				
RRRP	0.0004				

Average perunit loading squared=0.0714; per unit loading=0.2672
*For transformer sizes not included in the CSA standard, no load losses, load losses and associated costs are interpolated based on transformer size
**Cost of Energy and Wholesale Market per kWh contains Nov 1, 2019 RPP Tiered Pricing, WMRS Pricing to be effective January 1, 2019

Transformers	No Load Loss (W)	Load Loss (W)	Monthly No Load Loss (kW)	Monthly No Load Loss (kWH)	Monthly Load Loss (kW)	Monthly Load Loss (kWH)	Monthly Total Loss (kW)	Monthly Total Loss (kWH)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh**	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates									\$5.3453	\$0.1329		\$6.1242	
25 KVA 1 PH, 1.2kV BIL	150	900	0.113	82	0.048	9	0.161	91	\$0.86	\$12.08	\$12.94	\$0.98	\$13.92
37.5 KVA 1 PH, 1.2kV BIL	200	1200	0.150	110	0.064	12	0.214	121	\$1.15	\$16.10	\$17.25	\$1.31	\$18.56
50 KVA 1 PH, 1.2kV BIL	250	1600	0.188	137	0.086	16	0.273	152	\$1.46	\$20.26	\$21.72	\$1.67	\$23.39
75 KVA 1 PH, 1.2kV BIL	350	1900	0.263	192	0.102	18	0.364	210	\$1.95	\$27.92	\$29.87	\$2.23	\$32.10
100 KVA 1 PH, 1.2kV BIL	400	2600	0.300	219	0.139	25	0.439	244	\$2.35	\$32.47	\$34.81	\$2.69	\$37.50
112.5 kVA 1 PH, 1.2kV BIL	447	2936	0.335	245	0.157	29	0.492	273	\$2.63	\$36.32	\$38.95	\$3.02	\$41.97
*150 KVA 1 PH, 1.2kV BIL	525	3500	0.394	287	0.187	34	0.581	321	\$3.11	\$42.73	\$45.83	\$3.56	\$49.39
167 KVA 1 PH. 1.2kV BIL	650	4400	0.488	356	0.236	43	0.723	399	\$3.87	\$52.99	\$56.85	\$4.43	\$61.28
175 KVA 1PH, 1.2kV BIL	665	4496	0.499	364	0.241	44	0.740	408	\$3.95	\$54.20	\$58.15	\$4.53	\$62.68
*200 KVA 1 PH. 1.2kV BIL	696	4700	0.522	381	0.252	46	0.774	427	\$4.14	\$56.72	\$60.86	\$4.74	\$65.59
*225 KVA 1 PH, 1.2kV BIL	748	5050	0.561	410	0.270	49	0.831	459	\$4.44	\$60.96	\$65.40	\$5.09	\$70.49
250 KVA 1 PH. 1.2kV BIL	800	5400	0.600	438	0.289	53	0.889	491	\$4.75	\$65.19	\$69.95	\$5.45	\$75.39
333 KVA 1PH 1.2kV BIL	1000	6600	0.750	548	0.353	64	1.103	612	\$5.90	\$81.30	\$87.20	\$6.76	\$93.95
*10 kVA 3 PH, 1.2kV BIL	83	400	0.062	45	0.021	4	0.084	49	\$0.45	\$6.56	\$7.00	\$0.51	\$7.52
*15 KVA 3 PH, 1.2kV BIL	125	650	0.094	68	0.035	6	0.129	75	\$0.69	\$9.94	\$10.62	\$0.79	\$11.41
30 kVA 3PH, 1.2kV BIL	250	1300	0.188	137	0.070	13	0.257	150	\$1.37	\$19.87	\$21.25	\$1.57	\$22.82
45 KVA 3 PH, 1.2kV BIL	300	1800	0.225	164	0.096	18	0.321	182	\$1.72	\$24.16	\$25.87	\$1.97	\$27.84
75 KVA 3 PH, 1.2kV BIL	400	2400	0.300	219	0.129	23	0.429	242	\$2.29	\$32.21	\$34.50	\$2.62	\$37.12
112.5 KVA 3 PH, 1.2kV BIL	600	3400	0.450	329	0.182	33	0.632	362	\$3.38	\$48.05	\$51.43	\$3.87	\$55.30
150 KVA 3 PH, 1.2kV BIL	700	4500	0.525	383	0.241	44	0.766	427	\$4.09	\$56.75	\$60.85	\$4.69	\$65.54
*175 KVA 3PH, 1.2kV BIL	766	4767	0.575	419	0.255	46	0.830	466	\$4.44	\$61.90	\$66.34	\$5.08	\$71.42
*200 KVA 3PH, 1.2kV BIL	833	5033	0.625	456	0.270	49	0.894	505	\$4.78	\$67.12	\$71.90	\$5.48	\$77.38
225 KVA 3 PH, 1.2kV BIL	900	5300	0.675	493	0.284	52	0.959	544	\$5.13	\$72.34	\$77.47	\$5.87	\$83.34
300 KVA 3 PH, 1.2kV BIL	1100	6300	0.825	602	0.337	61	1.162	664	\$6.21	\$88.19	\$94.40	\$7.12	\$101.52
*450 KVA 3PH, 1.2kV BIL	2075	7275	1.556	1136	0.390	71	1.946	1,207	\$10.40	\$160.39	\$170.79	\$11.92	\$182.71
500 KVA 3 PH, 95kV BIL	2400	7600	1.800	1314	0.407	74	2.207	1,388	\$11.80	\$184.46	\$196.26	\$13.52	\$209.77
750 KVA 3 PH, 95kV BIL	3000	12000	2.250	1643	0.643	117	2.893	1,759	\$15.46	\$233.81	\$249.27	\$17.71	\$266.98
1000 KVA 3 PH, 95kV BIL	3400	13000	2.550	1862	0.696	126	3.246	1,988	\$17.35	\$264.20	\$281.56	\$19.88	\$301.44
1500 KVA 3 PH, 95kV BIL	4500	18000	3.375	2464	0.964	175	4.339	2,639	\$23.19	\$350.71	\$373.90	\$26.57	\$400.47
2000 KVA 3 PH, 95kV BIL	5400	21000	4.050	2957	1.125	204	5.175	3,161	\$27.66	\$420.07	\$447.73	\$31.69	\$479.42
2500 KVA 3 PH. 95kV BIL	6500	25000	4.875	3559	1.339	243	6.214	3.802	\$33.21	\$505.29	\$538.50	\$38.05	\$576.55
3000 KVA 3PH, 95kV BIL	7700	29000	5.775	4216	1.553	282	7.328	4,498	\$39.17	\$597.77	\$636.94	\$44.88	\$681.82
3750 KVA 3PH, 95kV BIL	9500	35000	7.125	5201	1.874	341	8.999	5.542	\$48.10	\$736.50	\$784.61	\$55.11	\$839.72
5000 KVA 3PH, 95kV BIL	11000	39000	8.250	6023	2.088	379	10.338	6,402	\$55.26	\$850.82	\$906.08	\$63.31	\$969.40

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use

Average load factor = 0.46 average loss factor = 0.2489

Loss factor = 0.15*load factor + 0.85(load factor)2

Average perunit loading squared=0.0714; per unit loading=0.2672

Monthly No Load Loss (kW) = no load loss (kW) * .75 (responsibility factor) Monthly No Load Loss (kWh) = monthly no load loss (kW) * 8760/12

Monthly Load loss (kW) = load loss (kW)*average perunit loading squared (.0714)*.75 (responsibility factor?)
Monthly Load loss (kWh) = monthly load loss (kW) *8760/12*average loss factor (.2489)

Responsibility Factor= (load at system peak/peak load)2= the ratio of the transformer load at system peak to the peak load, all squared=.75 Utilization Factor = peak load/rated load = 1

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	LV	Network	Line & Transmission	Variable
GS 50 to 1,499 kW	0.02494	2.9017	2.0474	6.2610
GS 1,500 to 4,999 kW	0.02666	3.0128	2.1882	5.9564
Large Use	0.03002	3.3399	2.4642	6.1552
Tier 1	0.119)		
Tier 2	0.139)		
WMSR	0.0030	,		
CBR	0.0004			
RRRP	0.0005			

^{*}For transformer sizes not included in the CSA standard, no load losses, load losses and associated costs are interpolated based on transformer size

^{**} Cost of Energy and Wholesale Market per kWh contains Nov 1, 2019 RPP Tiered Pricing, WMRS Pricing to be effective January 1, 2019

Transformers	No Load Loss (W)	Load Loss (W)	Monthly No Load Loss (kW)	Monthly No Load Loss (kWH)	Monthly Load Loss (kW)	Monthly Load Loss (kWH)	Monthly Total Loss (kW)	Monthly Total Loss (kWH)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh**	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates									\$5.3455	\$0.1329		\$6.3992	
25 KVA 1 PH, 1.2kV BIL	150	900	0.113	82	0.048	9	0.161	91	\$0.86	\$12.08	\$12.94	\$1.03	\$13.97
37.5 KVA 1 PH, 1.2kV BIL	200	1200	0.150	110	0.064	12	0.214	121	\$1.15	\$16.10	\$17.25	\$1.37	\$18.62
50 KVA 1 PH, 1.2kV BIL	250	1600	0.188	137	0.086	16	0.273	152	\$1.46	\$20.26	\$21.72	\$1.75	\$23.47
75 KVA 1 PH, 1.2kV BIL	350	1900	0.263	192	0.102	18	0.364	210	\$1.95	\$27.92	\$29.87	\$2.33	\$32.20
100 KVA 1 PH, 1.2kV BIL	400	2600	0.300	219	0.139	25	0.439	244	\$2.35	\$32.47	\$34.82	\$2.81	\$37.63
112.5 kVA 1 PH, 1.2kV BIL	447	2936	0.335	245	0.157	29	0.492	273	\$2.63	\$36.32	\$38.95	\$3.15	\$42.11
*150 KVA 1 PH, 1.2kV BIL	525	3500	0.394	287	0.187	34	0.581	321	\$3.11	\$42.73	\$45.83	\$3.72	\$49.55
167 KVA 1 PH, 1.2kV BIL	650	4400	0.488	356	0.236	43	0.723	399	\$3.87	\$52.99	\$56.85	\$4.63	\$61.48
175 KVA 1PH, 1.2kV BIL	665	4496	0.499	364	0.241	44	0.740	408	\$3.95	\$54.20	\$58.15	\$4.73	\$62.89
*200 KVA 1 PH, 1.2kV BIL	696	4700	0.522	381	0.252	46	0.774	427	\$4.14	\$56.72	\$60.86	\$4.95	\$65.81
*225 KVA 1 PH, 1.2kV BIL	748	5050	0.561	410	0.270	49	0.831	459	\$4.44	\$60.96	\$65.40	\$5.32	\$70.72
250 KVA 1 PH, 1.2kV BIL	800	5400	0.600	438	0.289	53	0.889	491	\$4.75	\$65.19	\$69.95	\$5.69	\$75.64
333 KVA 1PH 1.2kV BIL	1000	6600	0.750	548	0.353	64	1.103	612	\$5.90	\$81.30	\$87.20	\$7.06	\$94.26
*10 kVA 3 PH, 1.2kV BIL	83	400	0.062	45	0.021	4	0.084	49	\$0.45	\$6.56	\$7.00	\$0.54	\$7.54
*15 KVA 3 PH, 1.2kV BIL	125	650	0.094	68	0.035	6	0.129	75	\$0.69	\$9.94	\$10.62	\$0.82	\$11.45
30 kVA 3PH, 1.2kV BIL	250	1300	0.188	137	0.070	13	0.257	150	\$1.37	\$19.87	\$21.25	\$1.65	\$22.89
45 KVA 3 PH, 1.2kV BIL	300	1800	0.225	164	0.096	18	0.321	182	\$1.72	\$24.16	\$25.87	\$2.06	\$27.93
75 KVA 3 PH, 1.2kV BIL	400	2400	0.300	219	0.129	23	0.429	242	\$2.29	\$32.21	\$34.50	\$2.74	\$37.24
112.5 KVA 3 PH, 1.2kV BIL	600	3400	0.450	329	0.182	33	0.632	362	\$3.38	\$48.05	\$51.43	\$4.04	\$55.48
150 KVA 3 PH, 1.2kV BIL	700	4500	0.525	383	0.241	44	0.766	427	\$4.09	\$56.75	\$60.85	\$4.90	\$65.75
*175 KVA 3PH, 1.2kV BIL	766 833	4767 5033	0.575	419	0.255 0.270	46 49	0.830 0.894	466 505	\$4.44	\$61.90 \$67.12	\$66.34	\$5.31	\$71.65
*200 KVA 3PH, 1.2kV BIL	900	5300	0.625 0.675	456 493	0.270	52	0.894	544	\$4.78 \$5.13	\$72.34	\$71.90 \$77.47	\$5.72 \$6.14	\$77.62 \$83.60
225 KVA 3 PH, 1.2kV BIL 300 KVA 3 PH, 1.2kV BIL	1100	6300	0.675	602	0.284	52 61	1.162	664	\$5.13 \$6.21	\$72.34 \$88.19	\$94.40	\$6.14 \$7.44	\$101.84
*450 KVA 3PH, 1.2kV BIL	2075	7275	1.556	1136	0.337	71	1.102	1.207	\$10.40	\$160.39	\$170.79	\$12.45	\$101.64
500 KVA 3 PH. 95kV BIL	2400	7600	1.800	1314	0.390	74	2.207	1,207	\$10.40	\$184.46	\$170.79	\$14.12	\$210.38
750 KVA 3 PH, 95kV BIL	3000	12000	2.250	1643	0.407	117	2.893	1,759	\$15.46	\$233.81	\$249.27	\$18.51	\$267.78
1000 KVA 3 PH, 95kV BIL	3400	13000	2.550	1862	0.643	126	3.246	1,759	\$17.35	\$264.20	\$249.27	\$20.77	\$302.33
1500 KVA 3 PH, 95kV BIL	4500	18000	3.375	2464	0.096	175	4.339	2.639	\$23.19	\$350.71	\$373.90	\$20.77	\$401.67
2000 KVA 3 PH, 95kV BIL	5400	21000	4.050	2957	1.125	204	5.175	3,161	\$23.19	\$350.71	\$373.90	\$33.11	\$480.85
2500 KVA 3 PH, 95kV BIL	6500	25000	4.050	3559	1.125	243	6.214	3,161	\$27.00	\$420.07 \$505.29	\$447.73 \$538.50	\$33.11	\$578.26
3000 KVA 3PH, 95kV BIL	7700	29000	5.775	4216	1.553	282	7.328	4,498	\$39.17	\$597.77	\$636.94	\$46.89	\$683.84
3750 KVA 3PH, 95kV BIL	9500 11000	35000 39000	7.125 8.250	5201 6023	1.874 2.088	341 379	8.999 10.338	5,542 6,402	\$48.11 \$55.26	\$736.50 \$850.82	\$784.61 \$906.09	\$57.59 \$66.16	\$842.20
5000 KVA 3PH, 95kV BIL	11000	J9000	0.250	0023	2.088	3/9	10.338	6,402	დაა.2 6	დია0.82	\$906.09	φ00.16	\$972.24

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use

Average load factor = 0.46 average loss factor = 0.2489

Loss factor = 0.15*load factor + 0.85(load factor)2

Average perunit loading squared=0.0714; per unit loading=0.2672

Monthly No Load Loss (kW) = no load loss (kW) * .75 (responsibility factor)

Monthly No Load Loss (kWh) = monthly no load loss (kW) * 8760/12

Monthly Load loss (kW) = load loss (kW)*average perunit loading squared (.0714)*.75 (responsibility factor?)

Monthly Load loss (kWh) = monthly load loss (kW) *8760/12*average loss factor (.2489)

Responsibility Factor= (load at system peak/peak load)2= the ratio of the transformer load at system peak to the peak load, all squared=.75 Utilization Factor = peak load/rated load = 1

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 7 Schedule 1 Attachment B UPDATED May 5, 2020 Page 4 of 5

	LV	Network	Line & Transmission	Variable
GS 50 to 1,499 kW	0.02518	2.9017	2.0474	6.5058
GS 1,500 to 4,999 kW	0.02691	3.0128	2.1882	6.2424
Large Use	0.03030	3.3399	2.4642	6.4494
Tier 1	0.119			
Tier 2	0.139			
WMSR	0.0030			
CBR	0.0004			
RRRP	0.0005			

^{*}For transformer sizes not included in the CSA standard, no load losses, load losses and associated costs are interpolated based on transformer size

^{**} Cost of Energy and Wholesale Market per kWh contains Nov 1, 2019 RPP Tiered Pricing, WMRS Pricing to be effective January 1, 2019

Transformers	No Load Loss (W)	Load Loss (W)	Monthly No Load Loss (kW)	Monthly No Load Loss (kWH)	Monthly Load Loss (kW)	Monthly Load Loss (kWH)	Monthly Total Loss (kW)	Monthly Total Loss (kWH)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh**	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates									\$5.3459	\$0.1329		\$6.5877	
25 KVA 1 PH, 1.2kV BIL	150	900	0.113	82	0.048	9	0.161	91	\$0.86	\$12.08	\$12.94	\$1.06	\$14.00
37.5 KVA 1 PH, 1.2kV BIL	200	1200	0.150	110	0.064	12	0.214	121	\$1.15	\$16.10	\$17.25	\$1.41	\$18.66
50 KVA 1 PH, 1.2kV BIL	250	1600	0.188	137	0.086	16	0.273	152	\$1.46	\$20.26	\$21.72	\$1.80	\$23.52
75 KVA 1 PH, 1.2kV BIL	350	1900	0.263	192	0.102	18	0.364	210	\$1.95	\$27.92	\$29.87	\$2.40	\$32.27
100 KVA 1 PH, 1.2kV BIL	400	2600	0.300	219	0.139	25	0.439	244	\$2.35	\$32.47	\$34.82	\$2.89	\$37.71
112.5 kVA 1 PH, 1.2kV BIL	447	2936	0.335	245	0.157	29	0.492	273	\$2.63	\$36.32	\$38.95	\$3.24	\$42.20
*150 KVA 1 PH, 1.2kV BIL	525	3500	0.394	287	0.187	34	0.581	321	\$3.11	\$42.73	\$45.83	\$3.83	\$49.66
167 KVA 1 PH, 1.2kV BIL	650	4400	0.488	356	0.236	43	0.723	399	\$3.87	\$52.99	\$56.85	\$4.76	\$61.61
175 KVA 1PH, 1.2kV BIL	665	4496	0.499	364	0.241	44	0.740	408	\$3.95	\$54.20	\$58.15	\$4.87	\$63.03
*200 KVA 1 PH, 1.2kV BIL	696	4700	0.522	381	0.252	46	0.774	427	\$4.14	\$56.72	\$60.86	\$5.10	\$65.95
*225 KVA 1 PH, 1.2kV BIL	748	5050	0.561	410	0.270	49	0.831	459	\$4.44	\$60.96	\$65.40	\$5.48	\$70.88
250 KVA 1 PH, 1.2kV BIL	800	5400	0.600	438	0.289	53	0.889	491	\$4.75	\$65.19	\$69.95	\$5.86	\$75.80
333 KVA 1PH 1.2kV BIL	1000	6600	0.750	548	0.353	64	1.103	612	\$5.90	\$81.30	\$87.20	\$7.27	\$94.47
*10 kVA 3 PH, 1.2kV BIL	83	400	0.062	45	0.021	4	0.084	49	\$0.45	\$6.56	\$7.00	\$0.55	\$7.56
*15 KVA 3 PH, 1.2kV BIL	125	650	0.094	68	0.035	6	0.129	75	\$0.69	\$9.94	\$10.62	\$0.85	\$11.47
30 kVA 3PH, 1.2kV BIL	250	1300	0.188	137	0.070	13	0.257	150	\$1.37	\$19.87	\$21.25	\$1.69	\$22.94
45 KVA 3 PH, 1.2kV BIL	300	1800	0.225	164	0.096	18	0.321	182	\$1.72	\$24.16	\$25.87	\$2.12	\$27.99
75 KVA 3 PH, 1.2kV BIL	400	2400	0.300	219	0.129	23	0.429	242	\$2.29	\$32.21	\$34.50	\$2.82	\$37.32
112.5 KVA 3 PH, 1.2kV BIL	600	3400	0.450	329	0.182	33	0.632	362	\$3.38	\$48.05	\$51.43	\$4.16	\$55.60
150 KVA 3 PH, 1.2kV BIL	700	4500	0.525	383	0.241	44	0.766	427	\$4.09	\$56.75	\$60.85	\$5.05	\$65.89
*175 KVA 3PH, 1.2kV BIL	766 833	4767 5033	0.575	419	0.255 0.270	46 49	0.830 0.894	466 505	\$4.44	\$61.90 \$67.12	\$66.34	\$5.47	\$71.80
*200 KVA 3PH, 1.2kV BIL	900	5300	0.625 0.675	456 493	0.270	52	0.894	544	\$4.78 \$5.13	\$72.34	\$71.90 \$77.47	\$5.89 \$6.32	\$77.79 \$83.78
225 KVA 3 PH, 1.2kV BIL 300 KVA 3 PH, 1.2kV BIL	1100	6300	0.675	602	0.284	52 61	1.162	664	\$5.13 \$6.21	\$72.34 \$88.19	\$94.40	\$6.32 \$7.66	\$102.06
*450 KVA 3PH, 1.2kV BIL	2075	7275	1.556	1136	0.337	71	1.102	1.207	\$10.40	\$160.39	\$170.79	\$12.82	\$102.00
500 KVA 3 PH. 95kV BIL	2400	7600	1.800	1314	0.390	74	2.207	1,207	\$10.40	\$184.46	\$170.79	\$14.54	\$210.80
750 KVA 3 PH, 95kV BIL	3000	12000	2.250	1643	0.407	117	2.893	1,759	\$15.46	\$233.81	\$249.27	\$19.06	\$268.32
1000 KVA 3 PH, 95kV BIL	3400	13000	2.550	1862	0.643	126	3.246	1,759	\$17.35	\$264.20	\$249.27	\$21.38	\$302.94
1500 KVA 3 PH, 95kV BIL	4500	18000	3.375	2464	0.696	175	4.339	2,639	\$23.20	\$264.20 \$350.71	\$281.56	\$21.38	\$402.49
2000 KVA 3 PH, 95kV BIL	5400	21000	4.050	2957	1.125	204	5.175	3,161	\$23.20 \$27.66	\$350.71	\$373.90	\$28.58	\$402.49
2500 KVA 3 PH, 95kV BIL	6500	25000	4.050	3559	1.125	243	6.214	3,161	\$27.00	\$420.07 \$505.29	\$538.50	\$40.93	\$579.4
3000 KVA 3PH, 95kV BIL	7700	29000	5.775	4216	1.553	282	7.328	4,498	\$39.17	\$597.77	\$636.95	\$48.27	\$685.22
3750 KVA 3PH, 95kV BIL	9500 11000	35000 39000	7.125 8.250	5201 6023	1.874 2.088	341 379	8.999 10.338	5,542 6,402	\$48.11 \$55.27	\$736.50 \$850.82	\$784.61 \$906.09	\$59.28 \$68.11	\$843.90
5000 KVA 3PH, 95kV BIL	11000	J9000	0.250	0023	2.088	3/9	10.338	6,402	დაა.27	დიას.82	\$906.09	φ08.TT	\$974.20

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use

Average load factor = 0.46 average loss factor = 0.2489 Loss factor = 0.15*load factor + 0.85(load factor)2

Average perunit loading squared=0.0714; per unit loading=0.2672

*For transformer sizes not included in the CSA standard, no load losses, load losses and associated costs are interpolated based on transformer size

Monthly No Load Loss (kW) = no load loss (kW) * .75 (responsibility factor)

Monthly No Load Loss (kWh) = monthly no load loss (kW) * 8760/12

Monthly Load loss (kW) = load loss (kW)*average perunit loading squared (.0714)*.75 (responsibility factor?)

Monthly Load loss (kWh) = monthly load loss (kW) *8760/12*average loss factor (.2489)

Responsibility Factor= (load at system peak/peak load)2= the ratio of the transformer load at system peak to the peak load, all squared=.75 Utilization Factor = peak load/rated load = 1

New Transformers added 2021

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 7 Schedule 1 Attachment B UPDATED May 5, 2020 Page 5 of 5

GS 50 to 1,499 kW GS 1,500 to 4,999 kW Large Use	LV 0.02552 0.02728 0.03072	Network 2.9017 3.0128 3.3399	Line & Transmission 2.0474 2.1882 2.4642	Variable 6.6955 6.4281 6.6396
Tier 1 Tier 2	0.119 0.139			
WMSR CBR RRRP	0.0030 0.0004 0.0005			

^{**} Cost of Energy and Wholesale Market per kWh contains Nov 1, 2019 RPP Tiered Pricing, WMRS Pricing to be effective January 1, 2019



Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 9 Schedule 1 UPDATED May 5, 2020 Page 1 of 3

UPDATED LOSS ADJUSTMENT FACTORS

2

1

3 1. INTRODUCTION

- 4 As per the requirements set out in section 2.8.9 of the OEB's Chapter 2 Filing Requirements for
- 5 Electricity Distribution Rate Applications, as updated on July 12, 2018 and addended on July 15,
- 6 2019 ("Filing Requirements"), this Schedule outlines information related to Hydro Ottawa's Loss
- 7 Adjustment Factors.

8

9 2. **DISTRIBUTION LOSSES**

O As originally submitted, Table 1 provides losses as a percentage of purchases for each of the

11 five years in the 2014-2018 period. The updated version of Table 1 below provides losses as a

12 percentage of purchases for each of the five years in the 2015-2019 period. Hydro Ottawa

13 losses have not been greater than 5% in the past five years. There are no distributors

14 embedded in Hydro Ottawa's service area and the utility is not an embedded distributor itself.

15 However, it does have a number of delivery points embedded in Hydro One Networks Inc.'s

16 service territory.



Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 9 Schedule 1 UPDATED May 5, 2020 Page 2 of 3

Table 1 – AS ORIGINALLY SUBMITTED – Losses as a Percentage of Purchases for the

Previous Five Years¹

	2014	2015	2016	2017	2018
Electricity Purchases (MWh)	7,636,154	7,622,794	7,600,820	7,410,784	7,612,656
Electricity Sales (MWh)	7,425,541	7,374,808	7,374,415	7,190,875	7,367,818
Losses (MWh)	210,614	247,987	226,405	219,909	244,838
Losses %	2.76%	3.25%	2.98%	2.97%	3.22%

Table 1 – UPDATED FOR 2019 ACTUALS – Losses as a Percentage of Purchases for the

5 Previous Five Years²

	2015	2016	2017	2018	2019
Electricity Purchases (MWh)	7,622,794	7,600,820	7,410,784	7,612,656	7,466,403
Electricity Sales (MWh)	7,374,808	7,374,415	7,190,875	7,367,818	7,240,881
Losses (MWh)	247,987	226,405	219,909	244,838	225,521
Losses %	3.25%	2.98%	2.97%	3.22%	3.02%

7 3. LOSS ADJUSTMENT FACTORS

- 8 Hydro Ottawa's current loss adjustment factors, which were approved by the OEB as part of the
- 9 utility's last rebasing application, are shown in Table 2.3

Table 2 – Current Loss Adjustment Factors

	Total Loss Factor
Secondary Metered Customer < 5,000 kW	1.0335
Secondary Metered Customer > 5,000 kW	1.0164
Primary Metered Customer < 5,000 kW	1.0232
Primary Metered Customer > 5,000 kW	1.0062

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

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^{13 &}lt;sup>1</sup> Totals may not match due to rounding.

^{14 &}lt;sup>2</sup> Totals may not match due to rounding.

¹⁵ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).



Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 9 Schedule 1 UPDATED May 5, 2020 Page 3 of 3

- 1 Hydro Ottawa has completed UPDATED Attachment 8-9-1(A): OEB Appendix 2-R Loss
- 2 Factors, as required by the Filing Requirements.

3

- 4 As a result of completing **UPDATED** Attachment 8-9-1(A): OEB Appendix 2-R Loss Factors,
- 5 Hydro Ottawa is requesting approval of revised loss factors. As originally submitted, the loss
- 6 factors are based on the five-year average ending in 2018, for Secondary and Primary Metered
- 7 Customers. Table 3 below summarizes the original revised Loss Adjustment Factors.

8

- 9 In accordance with UPDATED Attachment 8-9-1(A): OEB Appendix 2-R Loss Factors, Hydro
- 10 Ottawa is requesting approval of revised loss factors based on the five-year average ending in
- 11 2019 for Secondary and Primary Metered Customers. Please refer to the updated version of
- 12 Table 3 below, which summarizes the revised Loss Adjustment Factors.

13 14

Table 3 – AS ORIGINALLY SUBMITTED – Revised Loss Adjustment Factors

	Total Loss Factor
Secondary Metered Customer < 5,000 kW	1.0331
Secondary Metered Customer > 5,000 kW	1.0155
Primary Metered Customer < 5,000 kW	1.0228
Primary Metered Customer > 5,000 kW	1.0053

1516

Table 3 – UPDATED FOR 2019 ACTUALS – Revised Loss Adjustment Factors

	Total Loss Factor
Secondary Metered Customer < 5,000 kW	1.0338
Secondary Metered Customer > 5,000 kW	1.0152
Primary Metered Customer < 5,000 kW	1.0234
Primary Metered Customer > 5,000 kW	1.0051

17

18 Hydro Ottawa proposes to use the updated loss factors for the 2021-2025 period.

UPDATED - Appendix 2-R Loss Factors

		Historical Years			5-Year		
		2015	2016	2017	2018	2019	Average
	Losses Within Distributor's System	n					
A(1)	"Wholesale" kWh delivered to distributor (higher value)	7,622,794,415	7,600,819,936	7,410,783,958	7,612,655,949	7,466,402,854	7,542,691,422
A(2)	"Wholesale" kWh delivered to distributor (lower value)	7,578,831,121	7,561,401,253	7,373,645,764	7,577,013,696	7,432,131,689	7,504,604,705
В	Portion of "Wholesale" kWh delivered to distributor for its Large Use Customer(s)	568,178,478	592,030,562	609,302,115	611,586,265	605,003,391	597,220,162
С	Net "Wholesale" kWh delivered to distributor = A(2) - B	7,010,652,643	6,969,370,691	6,764,343,649	6,965,427,431	6,827,128,298	6,907,384,542
D	"Retail" kWh delivered by distributor	7,374,807,822	7,374,414,773	7,190,875,162	7,367,818,383	7,240,881,408	7,309,759,510
E	Portion of "Retail" kWh delivered by distributor to its Large Use Customer(s)	564,803,671	588,872,536	606,156,949	608,577,999	602,082,784	594,098,788
F	Net "Retail" kWh delivered by distributor = D - E	6,810,004,151	6,785,542,237	6,584,718,213	6,759,240,384	6,638,798,624	6,715,660,722
G	Loss Factor in Distributor's system = C / F	1.0295	1.0271	1.0273	1.0305	1.0284	1.0285
	Losses Upstream of Distributor's	System					
Н	Supply Facilities Loss Factor	1.0058	1.0052	1.0050	1.0047	1.0046	1.0051
	Total Losses						
I	Total Loss Factor = G x H	1.0354	1.0324	1.0324	1.0353	1.0331	1.0338

Notes:

A(1) If directly connected to the IESO-controlled grid, kWh pertains to the virtual meter on the primary or high voltage side of the transformer at the interface with the transmission grid. This corresponds to the "With Losses" kWh value provided by the IESO's MV-WEB. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4. It is the https://example.com/higher-nd/4</a

If fully embedded within a host distributor, kWh pertains to the virtual meter on the primary or high voltage side of the transformer, at the interface between the host distributor and the transmission grid. For example, if the host distributor is Hydro One Networks Inc., kWh from the Hydro One Networks' invoice corresponding to "Total kWh w Losses" should be reported. This corresponds to the <u>higher</u> of the two kWh values provided in Hydro One Networks' invoice.

If partially embedded, kWh pertains to the sum of the above.

A(2) If directly connected to the IESO-controlled grid, kWh pertains to a metering installation on the secondary or low voltage side of the transformer at the interface with the transmission grid. This corresponds to the "Without Losses" kWh value provided by the IESO's MV-WEB. It is the <u>lower</u> of the two kWh values provided by MV-WEB.

If fully embedded with the host distributor, kWh pertains to a metering installation on the secondary or low voltage side of the transformer at the interface between the embedded distributor and the host distributor. For example, if the host distributor is Hydro One Networks Inc., kWh from the Hydro One Networks' invoice corresponding to "Total kWh" should be reported. This corresponds to the <u>lower</u> of the two kWh values provided in Hydro One Networks' invoice.

If partially embedded, kWh pertains to the sum of the above.

Additionally, kWh pertaining to distributed generation directly connected to the distributor's own distribution network should be included in **A** (2).

- If a Large Use Customer is metered on the secondary or low voltage side of the transformer, the default loss is 1% (i.e., **B** = 1.01 X **E**). This value should not include supply facility losses. However, the total loss factor on the tariff of rate and charges and applied to customers consumption should include the supply facility loss factor.
- **D** kWh corresponding to D should equal metered or estimated kWh at the customer's delivery point.
- **E** Metered consumption of Large Use customers.
- G and I These loss factors pertain to secondary-metered customers with demand less than 5,000 kW.
 - **H** Actual Supply Facility Loss Factor as calculated by dividing A(1) by A(2).



Hydro Ottawa Limited
EB-2019-0261
Exhibit 8
Tab 10
Schedule 1
UPDATED
May 5, 2020
Page 1 of 1

UPDATED CURRENT AND PROPOSED TARIFF OF RATES AND CHARGES

2

1

3 Hydro Ottawa's approved 2020 and proposed 2021 tariffs of rates and charges are provided in

4 UPDATED Attachment 8-10-1(A): OEB Workform - 2020 Current and 2021 Proposed Tariff of

5 Rates and Charges. The utility's 2022-2025 proposed tariff of rates and charges are provided in

6 UPDATED Attachment 8-10-1(B): OEB Workform - 2022-2025 Proposed Tariff of Rates and

7 Charges.

8

Hydro Ottawa encountered issues with UPDATED Attachment 8-10-1(A): OEB Workform - 2020

Current and 2021 Proposed Tariff of Rates and Charges. For the "General Service Less Than

1 50 kW Service Classification", "Unmetered Scattered Load Service Classification", and "Street

12 Lighting Service Classification" there were errors with the rate riders. The rate rider for Group 2

accounts is being calculated at both the sub total A and sub total B, but should only be in sub

total A. UPDATED Attachment 8-12-1(A): Bill Impacts Model 2021-2025 provides the correct bill

5 impacts. The model also would not allow an update to the 2021 proposed rate for

16 retailer-consolidated billing monthly credit, per customer. UPDATED Attachment 8-12-1(A): Bill

17 Impacts Model 2021-2025 contains the correct amount.

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment A UPDATED May 5, 2020 Page 1 of 59

	Ontario	Energy	Board
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Tariff Schedule and Bill Impacts Model (2021 Cost of Service Filers)

Quick Link

Ontario Energy Board's 2021 Electricity Distribution Rates Webpage

		• 0.5.0	2.0
Utility Name	Hydro Ottawa Limited		
Assigned EB Number	EB-2019-0261		
Name of Contact and Title	Gregory Van Dusen, Director, Regulatory Affairs		
Phone Number	613-738-5499 ext. 7472		
Email Address	RegulatoryAffairs@HydroOttawa.com		
We are applying for rates effective	January 1, 2021		
Rate-Setting Method	Custom IR		
Please indicate the last Cost of Service Re-Basing Year	2016		
<u>Legend</u>			
Pale green cells represent input of	ells.		
Pale blue cells represent drop-do	wn lists. The applicant should select the appropriate item from the drop-down list.		
Pale grey cell represent auto-pop	ulated RRR data		
White cells contain fixed values, a	utomatically generated values or formulae.		

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of liling your rate application. You may use and copy this model for that purpose, and provide a copy of his model experience in the advising or assisting you in that regard. Except as indicated above, any copyright, perpoduction, publication, sale, adaptation, translation, modification, reverse expineering or other use or dissemination of this model without the express written consent of the Other's Interest Except Secret as a second of the Other's Interest Experience and Consensation of the Other's Experience and Co

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Tariff Schedule and Bill Impacts Model

Hydro Ottawa Limited TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2019-0046

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	27.79
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$	0.85
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.00006
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	(0.0003)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020		
Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25



Tariff Schedule and Bill Impacts Model

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Global Adjustment and the HST.

\$	19.32
\$	0.57
\$/kWh	0.025
\$/kWh	0.00006
\$/kWh	(0.0002)
Ψπτττ	(0.0002)
\$/kWh	(0.0015)
\$/kWh	0.001
\$/kWh	0.0071
\$/kWh	0.005
\$/kWh	0.0030
\$/kWh	0.0004
\$/kWh	0.0005
•	0.25
	\$ \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh

Tariff Schedule and Bill Impacts Model

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate	\$ \$/kW \$/kW	200 4.876 0.02452
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0403)
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Applicable only for Non-Wholesale Market Participants Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kW \$/kWh	(0.0247)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Approved on an Interim Basis Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW \$/kW \$/k₩	0.1717 2.9017 2 .0 474

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MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Tariff Schedule and Bill Impacts Model

GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 1,500 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	4193.93
Distribution Volumetric Rate	\$/kW	4.4562
Low Voltage Service Rate	\$/kW	0.02621
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0719)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kW	0.2427
Retail Transmission Rate - Network Service Rate	\$/kW	3.0128
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1882
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030

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Ontario Energy Board Tariff Schedule and Bill Impacts Model Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable) 58 Model SkWh 0.0004 8kWh 0.0005 9kWh 0.25

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Tariff Schedule and Bill Impacts Model

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate	\$ \$/kW \$/kW	15231.32 4.2422 0.02951
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0863)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kW	0.183
Retail Transmission Rate - Network Service Rate	\$/kW	3.3399
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.4642
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030

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Ontario Energy Board Tariff Schedule and Bill Impacts Model Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable) \$ 0.25



Tariff Schedule and Bill Impacts Model

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection) Distribution Volumetric Rate	\$ \$/kWh	5.09 0.0242
Low Voltage Service Rate	\$/kWh	0.00006
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	(0.0002)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kWh	0.0013
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.005
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such asthe Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component - Approved on an Interim Basis

Service Charge	\$	145.13
General Service 50 TO 1,499 kW customer	\$/kW	1.9370
General Service 1,500 TO 4,999 kW customer	\$/kW	1.7766
General Service Large User kW customer	\$/kW	1.9716



Tariff Schedule and Bill Impacts Model

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

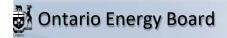
The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection) Distribution Volumetric Rate	\$ \$/kW	3.17 14.8502
Low Voltage Service Rate	\$/kW	0.01822
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0563)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kW	1.0461
Retail Transmission Rate - Network Service Rate	\$/kW	2.142
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5211
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25



Tariff Schedule and Bill Impacts Model

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

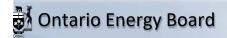
No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	0.91
Distribution Volumetric Rate	\$/kW	6.3414
Low Voltage Service Rate	\$/kW	0.0186
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020	\$/kW	(0.0609)
Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kW	0.5107
Retail Transmission Rate - Network Service Rate	\$/kW	2.1529
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5528
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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MICROFIT AND MICRO-NET-METERING SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

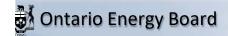
Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 19.00

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FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 129.00

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Tariff Schedule and Bill Impacts Model

HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

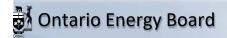
The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST

Service Charge \$	281.00
ALLOWANCES	
Transformer Allowance for Ownership - per kW of billing demand/month \$/k\	W (0.45)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy %	(1.00)



Tariff Schedule and Bill Impacts Model

SPECIFIC SERVICE CHARGES

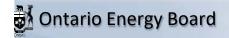
APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Customer Administration		
Account certificate	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Special billing service per hour (min 1 hour, 15 min incremental billing thereafter)	\$	104.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed payment charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Disconnect/reconnect at meter - regular hours (under account administration - new account)	\$	65.00
Disconnect/reconnect at meter - after regular hours (under account administration - new account)	\$	185.00
Interval meter - field reading	\$	378.00
High bill investigation - if billing is correct	\$	232.00
Non-Payment of Account		
Late payment - per month		
(effective annual rate 19.56% per annum or 0.04896% compounded daily rate	%	1.50
Reconnection at meter - during regular hours	\$	65.00
Reconnection at meter - after regular hours	\$	185.00
Reconnection at pole - during regular hours	\$	185.00
Reconnection at pole - after regular hours	\$	415.00
Other		
Temporary service - install & remove - overhead - no transformer	\$	866.00
Temporary service - install & remove - underground - no transformer	\$	1256.00
Temporary service - install & remove - overhead - with transformer	\$	3087.00
Specific charge for access to the power poles - \$/pole/year		
(with the exception of wireless attachments)	\$	53.00
Dry core transformer distribution charge		Per Attached Table
Energy resource facility administration charge - without account set up (one time)	\$	138.00
Energy resource facility administration charge - with account set up (one time)	\$	168.00



Tariff Schedule and Bill Impacts Model

RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	102.00
Monthly fixed charge, per retailer	\$	40.80
Monthly variable charge, per customer, per retailer	\$/cust.	1.02
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	-0.61
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.51
Processing fee, per request, applied to the requesting party	\$	1.02
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.08
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per the		
Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.04

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0335
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0164
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0232
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0062



Tariff Schedule and Bill Impacts Model (2021 Cost of Service Filers)

Update the following rates if an OEB Decision has been issued at the time of completing this application

Regulatory Charges			
Effective Date of Regulatory Charges		January 1, 2020	January 1, 2021
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25	0.62

Time-of-Use RPP Prices

As of		November 1, 2019
Off-Peak	\$/kWh	0.1010
Mid-Peak	\$/kWh	0.1440
On-Peak	\$/kWh	0.2080

Smart Meter Entity Charge (SME) Smart Meter Entity Charge (SMF)

Sitial t Weter Entity Charge (SWE)	Ş	0.57
Distribution Rate Protection (DRP) Amount (Applicable to LDCs		
under the Distribution Rate Protection program):	\$	36.86

Miscellaneous Service Charges

Wireline Pole Attachment Charge	Unit	Current charge	Inflation factor *	Proposed charge ** / ***
Specific charge for access to the power poles - per pole/year	\$	53.00	0.00%	53
Retail Service Charges		Current charge	Inflation factor*	Proposed charge ***
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	102.00	0.00%	102
Monthly fixed charge, per retailer	\$	40.80	0.00%	
Monthly variable charge, per customer, per retailer	\$/cust.	1.02	0.00%	1.02
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.61	0.00%	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	-0.61	0.00%	-0.61
Service Transaction Requests (STR)			0.00%	0
Request fee, per request, applied to the requesting party	\$	0.51	0.00%	0.51
Processing fee, per request, applied to the requesting party	\$	1.02	0.00%	1.02
Electronic Business Transaction (EBT) system, applied to the requesting party				
up to twice a year		no charge		no charge
more than twice a year, per request (plus incremental delivery costs)	\$	4.08	0.00%	4.08
Notice of switch letter charge, per letter	\$	2.04	0.00%	2.04

^{*} inflation factor subject to change pending OEB approved inflation rate effective in 2021

** applicable only to LDCs in which the province-wide pole attachment charge applies

*** subject to change pending OEB order on miscellaneous service charges

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Ontario Energy Board Tariff Schedule and Bill Impacts Model (2021 Cost of Service Filers)

RESIDENTIAL SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TO
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
ate Rider for Group 2 Accounts	s	-0.22	- effective until	2021-12-31	А
ite Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery	S	0.25	- effective until		A
ite Rider for Deferral / Variance Accounts Balance (ex. Global Adj.)	\$/kWh	-0.0006	- effective until	2021-12-31	В
ite Rider for RSVA - Power - Global Adjustment	\$/kWh	0.0026	- effective until	2021-12-31	В
			- effective until		
			- effective until		
			- effective until		
			- effective until		
ENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TO
			- effective until		
			effective until effective until		
			effective until effective until		
			effective until effective until		
			effective until		
			- effective until		
te Rider for Group 2 Accounts	S/kWh	-0.0005	- effective until	2021-12-31	A
te Rider for Group 2 Accounts te Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery	S/kWh	0.0005	- effective until		A
te Rider for Deferral / Variance Accounts Balance (ex. Global Adj.)	S/kWh	-0.0006	- effective until		В
ite Rider for RSVA - Power - Global Adjustment	\$/kWh	0.0026	- effective until		В
			- effective until		
			- effective until		
			- effective until		
			- effective until		
SENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TO
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
ate Rider for Group 2 Accounts	\$/kW	-0.2549	- effective until		A
ate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery	\$/kW	-0.0176	- effective until	2021-12-31	A
ate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.)	\$/kW	-0.1821	 effective until 	2021-12-31	В
ate Rider for RSVA - Power - Global Adjustment	\$/kWh	0.0026	- effective until		В
ate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) NON WMP	\$/kW	-0.1053	- effective until	2021-12-31	В
			- effective until		
			- effective until - effective until		
	UNIT				
SENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION	UNIT	RATE	- effective until	DATE (EG: December 31, 2021)	SUB-TO
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
ote Rider for Group 2 Accounts	\$/kW	-0.2761	- effective until - effective until	2021-12-31	A
ate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery	\$/kW	0.0483	- effective until - effective until - effective until -	2021-12-31	A
ate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery ate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.)	S/kW S/kW	0.0483 -0.1983	- effective until - effective until - effective until - effective until	2021-12-31 2021-12-31	A A B
ate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery ate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) ate Rider for RSVA - Power - Global Adjustment	\$/kW \$/kW \$/kWh	0.0483 -0.1983 0.0026	- effective until - effective until - effective until - effective until - effective until - effective until	2021-12-31 2021-12-31 2021-12-31	A A B
ate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery ate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) ate Rider for RSVA - Power - Global Adjustment	S/kW S/kW	0.0483 -0.1983	- effective until - effective until - effective until - effective until - effective until - effective until	2021-12-31 2021-12-31 2021-12-31	A A B B
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Its Bider for Lott Revenue Adjustment Mechanism (LMAM) Recovery the Bider for Deferit Joine Accounts Basine (e., Global Ad) Its Bider for KNSA - Fower - Global Adjustment the Rider for Deferral / Variance Accounts Basinere (ex. Global Adj.) NON WMP ARGE USE SERVICE CLASSIFICATION The Rider for Group 2 Accounts the Bider for Group 2 Accounts the Bider for Group 2 Accounts The Bider for Colon Revenue Adjustment Mechanism (LMAM) Recovery the Bider for Colon Revenue Adjustment Mechanism (LMAM) Recovery	S/kW S/kWh S/kWh S/kW UNIT	0.0483 -0.1983 -0.0026 -0.1176 RATE	- effective until - effective	2021-12-31 2021-12-31 2021-12-31 2021-12-31 DATE (EG: December 31, 2021) 2021-12-31 2021-12-31 2021-12-31	A A B B B B B B B B B B B B B B B B B B
ate Bider for Costs Revenue Adjustment Mechanics (LMAM) Recovery tel Bider for Enter (1) (e.g. Clobal Adj.) tel Bider for SWAN - Flower - Global Adjustment tel Bider for Deferral / Variance Accounts Balance (ex. Global Adj.) INON WMP ARGE USE SERVICE CLASSIFICATION are Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts	S/kW S/kW S/kWh S/kW UNIT	0.0483 -0.1983 -0.026 -0.1176 -0.1176 -0.3463 -0.0760	effective until effective until	2021-12-31 2021-12-31 2021-12-31 2021-12-31 DATE (EG: December 31, 2021) 2021-12-31 2021-12-31 2021-12-31	A B B SUB-T(
Its Bider for Lots Revenue Adjustment Mechanics (LBAM) Recovery the Bider for Entirel Tyrisme Accounts Balance (e., Global Adj.) Its Bider for SXSVA - Power - Global Adjustment the Bider for Entirel Tyrisme Accounts Balance (ex. Global Adj.) NON WMP ARGE USE SERVICE CLASSIFICATION Intelligence of Comment of Comment (EAM) Recovery the Bider for Group 2 Accounts the Bider for Group 2 Accounts In Bider for Cost Revenue Adjustment Mechanics (EAM) Recovery the Bider for Cost Revenue Adjustment Mechanics (EAM) Recovery	S/kW S/kWh S/kWh S/kW UNIT	0.0483 -0.1983 -0.0026 -0.1176 RATE	effective until effective until	2021-12-31 2021-12-31 2021-12-31 2021-12-31 DATE (EG: December 31, 2021) 2021-12-31 2021-12-31 2021-12-31	A B B SUB-Ti
ate Bider for Costs Revenue Adjustment Mechanics (LMAM) Recovery tel Bider for Enter (1) (e.g. Clobal Adj.) tel Bider for SWAN - Flower - Global Adjustment tel Bider for Deferral / Variance Accounts Balance (ex. Global Adj.) INON WMP ARGE USE SERVICE CLASSIFICATION are Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts tale Rider for Group 2 Accounts	S/kW S/kWh S/kWh S/kW UNIT	0.0483 -0.1983 -0.0026 -0.1176 RATE	effective until effective until	2021-12-31 2021-12-31 2021-12-31 2021-12-31 DATE (EG: December 31, 2021) 2021-12-31 2021-12-31 2021-12-31	A B B B SUB-T(
tate Rider for Group 2 Accounts state Rider for Cross Revenue Adjustment Mechanism (BAMA) Recovery state Rider for Defrey (Vastuce Accounts Balance (ex. Global Adj.) state Rider for RIVA - Power - Global Adj.) state Rider for Defrey / Yestence Accounts Balance (ex. Global Adj.) NON WMP LARGE USE SERVICE CLASSIFICATION Later Rider for Group 2 Accounts state Rider for Group 2 Accounts state Rider for Group 2 Accounts state Rider for Cross Revenue Adjustment Mechanism (LRMA) Recovery state Rider for Lots Revenue Adjustment Mechanism (LRMA) Recovery state Rider for RIVA - Power - Global Adjustment Later Rider for RIVA - Power - Global Adjustment	S/kW S/kWh S/kWh S/kW UNIT	0.0483 -0.1983 -0.0026 -0.1176 RATE	effective until effective until	2021-12-31 2021-12-31 2021-12-31 2021-12-31 DATE (EG: December 31, 2021) 2021-12-31 2021-12-31 2021-12-31	A

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Tariff Schedule a				del	
(2021 Cost	of Sen	vice Filers	5)		
INMETERED SCATTERED LOAD SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TOT
MINETERED SOATTERED LOAD SERVICE GEASSIFICATION	ONII	KAIL	- effective until	DATE (EG: December 31, 2021)	305-101
			effective until effective until		
			- effective until		
			 effective until effective until 		
			- effective until		
ate Rider for Group 2 Accounts ate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery	\$/kWh \$/kWh	-0.0004 -0.0002	effective until effective until	2021-12-31	A
ate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.)	\$/kWh	-0.0002	- effective until	2021-12-31	A B
			effective until effective until		
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			- errective until		
TANDBY POWER SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TOTA
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			 effective until effective until 		
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			 effective until effective until 		
			 effective until 		
			effective until effective until		
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			 effective until 		
			- effective until - effective until		
			- effective until		
			- effective until		
SENTINEL LIGHTING SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TOT
			- effective until	,	
			 effective until effective until 		
			 effective until 		
			effective until effective until		
			- effective until		
tate Rider for Group 2 Accounts tate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.)	S/kW S/kW	-0.0016 -0.2023	- effective until	2021-12-31	A B
tate Rider for RSVA - Power - Global Adjustment	\$/kWh	0.0026	- effective until	2021-12-31	В
			- effective until - effective until		
			- effective until		
			effective until effective until		
			- errective until		
STREET LIGHTING SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TOTA
			- effective until - effective until		
			 effective until 		
			 effective until effective until 		
			- effective until		
			- effective until		
late Rider for Group 2 Accounts late Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery	\$/kW \$/kW	-0.1362 -0.0257	 effective until effective until 	2021-12-31	A
late Rider for Deferral / Variance Accounts Balance (ex. Global Adi.)	\$/kW	-0.2039	 effective until 	2021-12-31	В
tate Rider for RSVA - Power - Global Adjustment	\$/kWh	0.0026	- effective until	2021-12-31	В
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TT SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TOTA
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CI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: December 31, 2021)	SUB-TOTA
			- effective until	= (==: =============================	
			 effective until effective until 		
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			- effective until		

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Hydro Ottawa Limited TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2021

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2019-0261

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	30.59
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2021	\$	0.25
Rate Rider for Group 2 Accounts - effective until December 31, 2021	\$	(0.22)
Smart Metering Entity Charge effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.00006
Pate Diday for Deferral / Variance Assessment Delance (av. Clahal Adi.) affective until December 24, 2024	Ø (L.) A (L.	(0.0000)
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) - effective until December 31, 2021	\$/kWh	(0.0006)
Rate Rider for RSVA - Power - Global Adjustment - effective until December 31, 2021	\$/kWh	0.0026
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.62

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GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Global Adjustment and the HST.

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GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	200
Distribution Volumetric Rate	\$/kW	5.5079
Low Voltage Service Rate	\$/kW	0.02434
Rate Rider for Group 2 Accounts - effective until December 31, 2021	\$/kW	(0.2549)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2021	\$/kW	(0.0176)
Data Diday fay Defayyal / Vayianaa Assayyta Balanaa (ay Clabal Adi) affastiya yotil Dasambay 34, 2024	Φ.U.A.A.I	(0.4004)
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) - effective until December 31, 2021	\$/kW	(0.1821)
Rate Rider for RSVA - Power - Global Adjustment - effective until December 31, 2021	\$/kWh	0.0026
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) NON WMP - effective until December 31,		
2021	\$/kW	(0.1053)

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Retail Transmission Rate - Network Service Rate	\$/kW	2.9017
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.0474
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.62

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GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 1,500 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate	\$ \$/kW \$/kW	4193.93 5.1438 0.02601
Rate Rider for Group 2 Accounts - effective until December 31, 2021	\$/kW	(0.2761)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2021	\$/kW	0.0483
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) - effective until December 31, 2021 Rate Rider for RSVA - Power - Global Adjustment - effective until December 31, 2021 Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) NON WMP - effective until December 31,	\$/kW \$/kWh	(0.1983) 0.0026
2021	\$/kW	(0.1176)
Retail Transmission Rate - Network Service Rate	\$/kW	3.0128
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1882

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MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.62

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LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	15231.32
Distribution Volumetric Rate	\$/kW	5.3135
Low Voltage Service Rate	\$/kW	0.02929
Rate Rider for Group 2 Accounts - effective until December 31, 2021	\$/kW	(0.3463)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2021	\$/kW	0.0760
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) - effective until December 31, 2021	\$/kW	(0.3099)
Rate Rider for RSVA - Power - Global Adjustment - effective until December 31, 2021	\$/kWh	0.0026
Retail Transmission Rate - Network Service Rate	\$/kW	3.3399
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.4642
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004

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Rural or Remote Electricity Rate Protection Charge (RRRP) \$/kWh 0.0005
Standard Supply Service - Administrative Charge (if applicable) \$ 0.62

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UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection) Distribution Volumetric Rate Low Voltage Service Rate Rate Rider for Group 2 Accounts - effective until December 31, 2021	\$ \$/kWh \$/kWh \$/kWh	5.6 0.0263 0.00006 (0.0004)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2021	\$/kWh	(0.0002)
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) - effective until December 31, 2021	\$/kWh	(0.0006)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.005
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$/kWh \$	0.0030 0.0004 0.0005 0.62

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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such asthe Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component - Approved on an Interim Basis

Service Charge	\$	159.73
General Service 50 TO 1,499 kW customer	\$/kW	2.1317
General Service 1,500 TO 4,999 kW customer	\$/kW	1.9553
General Service Large User kW customer	\$/kW	2.1698

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SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	3.91
Distribution Volumetric Rate	\$/kW	18.3405
Low Voltage Service Rate	\$/kW	0.01808
Rate Rider for Group 2 Accounts - effective until December 31, 2021	\$/kW	(0.0016)
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) - effective until December 31, 2021	\$/kW	(0.2023)
Rate Rider for RSVA - Power - Global Adjustment - effective until December 31, 2021	\$/kWh	0.0026
Retail Transmission Rate - Network Service Rate	\$/kW	2.142
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.521
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.62

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STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection) Distribution Volumetric Rate Low Voltage Service Rate Rate Rider for Group 2 Accounts - effective until December 31, 2021	\$ \$/kW \$/kW \$/kW	0.95 6.6719 0.01846 (0.1362)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2021	\$/kW	(0.0257)
Rate Rider for Deferral / Variance Accounts Balance (ex. Global Adj.) - effective until December 31, 2021 Rate Rider for RSVA - Power - Global Adjustment - effective until December 31, 2021	\$/kW \$/kWh	(0.2039) 0.0026
Retail Transmission Rate - Network Service Rate	\$/kW	2.1529
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5528
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$/kWh \$	0.0030 0.0004 0.0005 0.62

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NET-METERING SERVICE CLASSIFICATION

This classification applies to an eligible electricity generation facility as defined in O. Reg. 541/05. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

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microFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

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FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 78.00

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Effective and Implementation Date January 1, 2021

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	322.00
ALLOWANCES		
Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.45)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

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Hydro Ottawa Limited TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2021

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SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Customer Administration		
Arrears Certificate	\$	16.00
Easement Certificate for Unregistered Easements	\$	26.00
Duplicate invoices for previous billing	\$	6.00
Special billing service per hour (min 1 hour, 15 min incremental billing thereafter)	\$	126.00
Credit reference/credit check (plus credit agency costs)	\$	16.00
Unprocessed payment charge (plus bank charges)	\$	26.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	26.00
Disconnect/reconnect at meter - regular hours (new account)	\$	69.00
Disconnect/reconnect at meter - after regular hours (new account)	\$	103.00
Interval meter - field reading	\$	322.00
High bill investigation - if billing is correct	\$	244.00
Non-Payment of Account		
Late payment - per month		
(effective annual rate 19.56% per annum or 0.04896% compounded daily rate	%	1.50
Reconnection at meter - during regular hours	\$	69.00
Reconnection at meter - after regular hours	\$	103.00
Reconnection at pole - during regular hours	\$	257.00
Reconnection at pole - after regular hours	\$	437.00
Other		
Temporary service - install & remove - overhead - no transformer	\$	910.00
Temporary service - install & remove - underground - no transformer	\$	1320.00
Temporary service - install & remove - overhead - with transformer	\$	3243.00
Specific charge for access to the power poles - \$/pole/year		
(with the exception of wireless attachments)	\$	46.53
Dry core transformer distribution charge		Per Attached Table
Energy resource facility administration charge (account set-up charge separately if applicable)	\$	146.00

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RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

	\$	102.00
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	Φ	
Monthly fixed charge, per retailer	\$	40.80
Monthly variable charge, per customer, per retailer	\$/cust.	1.02
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	-0.61
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.51
Processing fee, per request, applied to the requesting party	\$	1.02
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.08
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per the	e	
Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.04

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	2.0338
Fotal Loss Factor - Secondarý ivietered Customer ≥ 5,000 kW	1.0152
rotal Loss Factor - Primary interered Gustomer < 5,000 kw	1.0234
rotal Loss Factor - Primary interered Gustomer > 5,000 kw	1.0051

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DRAFT - TARIFF OF RATES AND CHARGES

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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Dry Core Transformer Charges

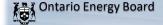
Transformers	No Load Loss (W)	Load Loss (W)	Tra n aı	Cost of nsmissio nd LV per kW	Wholesale Market per kWh		Energy and Wholesale Market per kWh		Energy and Wholesale Market per kWh		Energy and Wholesale Market per kWh		С	Total lonthly lost of loower	Dist	Cost of tribution er kW	Total
Rates			\$	5.3446	\$	0.1329			\$	5.3217							
25 KVA 1 PH, 1.2kV BIL	150	900	\$	0.86	\$	12.08	\$	12.94	\$	0.86	\$ 13.79						
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$	1.15	\$	16.10	\$	17.25	\$	1.14	\$ 18.39						
50 KVA 1 PH, 1.2kV BIL	250	1600	\$	1.46	\$	20.26	\$	21.72	\$	1.45	\$ 23.17						
75 KVA 1 PH, 1.2kV BIL	350	1900	\$	1.95	\$	27.92	\$	29.87	\$	1.94	\$ 31.81						
100 KVA 1 PH, 1.2kV BIL	400	2600	\$	2.35	\$	32.47	\$	34.81	\$	2.34	\$ 37.15						
112.5 kVA 1 PH, 1.2kV BIL	447	2936	\$	2.63	\$	36.32	\$	38.95	\$	2.62	\$ 41.57						
*150 KVA 1 PH, 1.2kV BIL	525	3500	\$	3.11	\$	42.73	\$	45.83	\$	3.09	\$ 48.93						
167 KVA 1 PH, 1.2kV BIL	650	4400	\$	3.86	\$	52.99	\$	56.85	\$	3.85	\$ 60.70						
175 KVA 1PH, 1.2kV BIL	665	4496	\$	3.95	\$	54.20	\$	58.15	\$	3.94	\$ 62.09						
*200 KVA 1 PH, 1.2kV BIL	696	4700	\$	4.14	\$	56.72	\$	60.86	\$	4.12	\$ 64.97						
*225 KVA 1 PH, 1.2kV BIL	748	5050	\$	4.44	\$	60.96	\$	65.40	\$	4.42	\$ 69.82						
250 KVA 1 PH, 1.2kV BIL	800	5400	\$	4.75	\$	65.19	\$	69.95	\$	4.73	\$ 74.68						
333 KVA 1PH 1.2kV BIL	1000	6600	\$	5.90	\$	81.30	\$	87.19	\$	5.87	\$ 93.07						
*10 kVA 3 PH, 1.2kV BIL	83	400	\$	0.45	\$	6.56	\$	7.00	\$	0.45	\$ 7.45						
*15 KVA 3 PH, 1.2kV BIL	125	650	\$	0.69	\$	9.94	\$	10.62	\$	0.68	\$ 11.31						
*30 kVA 3PH, 1.2kV BIL	250	1300	\$	1.37	\$	19.87	\$	21.25	\$	1.37	\$ 22.61						
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$	1.72	\$	24.16	\$	25.87	\$	1.71	\$ 27.58						
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$	2.29	\$	32.21	\$	34.50	\$	2.28	\$ 36.78						
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$	3.38	\$	48.05	\$	51.43	\$	3.36	\$ 54.80						
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$	4.09	\$	56.75	\$	60.85	\$	4.08	\$ 64.92						
*175 KVA 3PH, 1.2kV BIL	766	4767	\$	4.43	\$	61.90	\$	66.34	\$	4.42	\$ 70.75						
*200 KVA 3PH, 1.2kV BIL	833	5033	\$	4.78	\$	67.12	\$	71.90	\$	4.76	\$ 76.66						
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$	5.12	\$	72.34	\$	77.46	\$	5.10	\$ 82.57						
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$	6.21	\$	88.19	\$	94.40	\$	6.19	\$ 100.58						
*450 KVA 3PH, 1.2kV BIL	2075	7275	\$	10.40	\$	160.39	\$	170.79	\$	10.36	\$ 181.14						
*500 KVA 3 PH, 95kV BIL	2400	7600	\$	11.80	\$	184.46	\$	196.25	\$	11.74	\$ 208.00						
*750 KVA 3 PH, 95kV BIL	3000	12000	\$	15.46	\$	233.81	\$	249.27	\$	15.39	\$ 264.66						
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$	17.35	\$	264.20	\$	281.55	\$	17.28	\$ 298.83						
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$	23.19	\$	350.71	\$	373.90	\$	23.09	\$ 396.99						
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$	27.66	\$	420.07	\$	447.73	\$	27.54	\$ 475.27						
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$	33.21	\$	505.29	\$	538.50	\$	33.07	\$ 571.56						
*3000 KVA 3PH, 95kV BIL	7700	29000	\$	39.17	\$	597.77	\$	636.94	\$	39.00	\$ 675.94						
*3750 KVA 3PH, 95kV BIL	9500	35000	\$	48.10	\$	736.50	\$	784.60	\$	47.89	\$ 832.49						
*5000 KVA 3PH, 95kV BIL	11000	39000	\$	55.26	\$	850.82	\$	906.08	\$	55.02	\$ 961.09						

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

^{*}For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

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Tariff Schedule and Bill Impacts Model (2021 Cost of Service Filers)

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to section 3.2.3 of the Chapter 3 Filling Requirements For Electricity Distribution Rate Applications.

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:

- 1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of May 2017 of \$0.1101/kWh (IESO's Monthly Market Report for May 2017, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
- 2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1".

 Distributors should provide the number of connections or devices reflective of a typical customer in each class.
- Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Table 1

Table I								
RATE CLASSES / CATEGORIES (eg: Residential TOU, Residential Retailer)	Units	RPP? Non-RPP Retailer? Non-RPP Other?	Current Loss Factor (eg: 1.0351)	Proposed Loss Factor	Consumption (kWh)	Demand kW (if applicable)	RTSR Demand or Demand- Interval?	Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connections).
RESIDENTIAL SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	750		CONSUMPTION	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	2,000		CONSUMPTION	
GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION	kw	Non-RPP (Other)	1.0335	1.0338	51,000	50	DEMAND	
GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION	kw	Non-RPP (Other)	1.0335	1.0338	1,277,500	2,500	DEMAND	
LARGE USE SERVICE CLASSIFICATION	kw	Non-RPP (Other)	1.0062	1.0051	4,000,000	7,500	DEMAND	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	470		CONSUMPTION	1
STANDBY POWER SERVICE CLASSIFICATION								
SENTINEL LIGHTING SERVICE CLASSIFICATION	kw	RPP	1.0335	1.0338	94	0	DEMAND	1
STREET LIGHTING SERVICE CLASSIFICATION	kw	RPP	1.0335	1.0338	150	1	DEMAND	1
FIT SERVICE CLASSIFICATION								
HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION								
RESIDENTIAL SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	232		CONSUMPTION	
RESIDENTIAL SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	640		CONSUMPTION	
RESIDENTIAL SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	800		CONSUMPTION	
RESIDENTIAL SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	1,000		CONSUMPTION	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	1,000		CONSUMPTION	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kwh	RPP	1.0335	1.0338	15,000		CONSUMPTION	
GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION	kw	Non-RPP (Other)	1.0335	1.0338	127,750	250	DEMAND	
GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION	kw	Non-RPP (Other)	1.0335	1.0338	1,277,500	4,000	DEMAND	
LARGE USE SERVICE CLASSIFICATION	kw	Non-RPP (Other)	1.0062	1.0051	4.000.000	10.000	DEMAND	

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Table 2										
RATE CLASSES / CATEGORIES				Sul	b-Total				Total	
(eg: Residential TOU, Residential Retailer)	Units	Α			В			С	Total Bill	
, ,		\$	%	\$	%	\$		%	\$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kwh	\$ 1.98	6.9%	\$ 1.78	5.5%	\$ 1	.79	4.2%	\$ 1.75	1.5%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	kwh	\$ 2.89	4.1%	\$ 2.37	3.0%	\$ 2	.37	2.3%	\$ 2.23	0.7%
GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kw	\$ 9.39	2.1%	\$ 207.36	55.5%	\$ 207	.36	33.4%	\$ 236.70	3.2%
GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION - Non-RPP (Other	kw	\$ 542.75	3.4%	\$ 5,170.00	37.2%	\$ 5,170	.00	19.2%	\$ 5,891.89	2.9%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kw	\$ 4,635.00	9.6%	\$ 19,356.35	46.1%	\$ 19,356	.35	22.6%	\$ 21,306.29	3.5%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kwh	\$ 0.60	3.5%	\$ 0.15	0.8%	\$ 0	.15	0.6%	\$ 0.43	0.6%
STANDBY POWER SERVICE CLASSIFICATION -										
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	kw	\$ 1.72	18.0%	\$ 1.66	16.8%	\$ 1	.66	14.6%	\$ 1.65	8.5%
STREET LIGHTING SERVICE CLASSIFICATION - RPP	kw	\$ (0.30)	-3.9%	\$ (0.60)	-7.2%	\$ (0	.60)	-5.0%	\$ (0.26)	-0.7%
FIT SERVICE CLASSIFICATION -										
HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION -										
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kwh	\$ 1.98	6.9%	\$ 1.92	6.4%	\$ 1	.92	5.8%	\$ 1.86	3.6%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kwh	\$ 1.98	6.9%	\$ 1.81	5.7%	\$ 1	.81	4.5%	\$ 1.77	1.8%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kwh	\$ 1.98	6.9%	\$ 1.77	5.5%	\$ 1	.77	4.1%	\$ 1.74	1.4%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kwh	\$ 1.98	6.9%	\$ 1.72	5.2%	\$ 1	.72	3.7%	\$ 1.70	1.2%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	kwh	\$ 2.09	4.6%	\$ 1.83	3.7%	\$ 1	.83	2.9%	\$ 1.79	1.1%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	kwh	\$ 13.29	3.2%	\$ 8.79	2.2%	\$ 8	.84	1.5%	\$ 7.96	0.4%
GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kw	\$ 46.93	3.2%	\$ 515.06	40.9%	\$ 515	.06	20.6%	\$ 587.37	3.0%
GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kw	\$ 868.40	3.8%	\$ 5,129.35	24.6%	\$ 5,129	.35	12.3%	\$ 5,845.95	2.7%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kw	\$ 6,180.00	10.4%	\$ 20,341.80	38.4%	\$ 20,341	.80	18.3%	\$ 22,419.84	3.5%

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Customer Class: RESIDENTIAL SERVICE CLASSIFICATION RPP / Non-RPP: RPP
Consumption 750 kWh

		Current OE	B-Approve	d				Proposed				Impact		
		Rate	Volume		Charge		Rate	Volume		Charge				
		(\$)			(\$)		(\$)			(\$)	\$ (Change	% Change	
Monthly Service Charge	\$	27.79	1	\$	27.79	\$	30.59	1	\$	30.59	\$	2.80	10.08%	
Distribution Volumetric Rate	\$	-	750	\$	-	\$	-	750	\$	-	\$	-		
Fixed Rate Riders	\$	0.85	1	\$	0.85	\$	0.03	1	\$	0.03	\$	(0.82)	-96.47%	
Volumetric Rate Riders	\$	-	750	\$	-	\$	-	750	\$	-	\$	-		
Sub-Total A (excluding pass through)				\$	28.64				\$	30.62	\$	1.98	6.91%	
Line Losses on Cost of Power	\$	0.1276	25	\$	3.21	\$	0.1276	25	\$	3.23	\$	0.03	0.90%	
Total Deferral/Variance Account Rate	e	(0.0003)	750	\$	(0.23)	\$		750	\$	_	\$	0.23	-100.00%	
Riders	1 *	(0.0003)	730	φ	(0.23)	Ψ	-	750	φ	-	φ	0.23	-100.0076	
CBR Class B Rate Riders	\$	-	750	\$	-	\$	-	750	\$	-	\$	-		
GA Rate Riders	\$	-		\$	-	\$	-	750	\$	-	\$	-		
Low Voltage Service Charge	\$	0.00006	750	\$	0.05	\$	0.00006	750	\$	0.05	\$	-	0.00%	
Smart Meter Entity Charge (if applicable)	\$	0.57	1	\$	0.57	\$	0.57	1	\$	0.57	\$	-	0.00%	
Additional Fixed Rate Riders	\$	_	1	\$	_	\$	_	1	\$	_	\$	_		
Additional Volumetric Rate Riders	ľ		750	\$	_	\$	(0.0006)	750	\$	(0.45)		(0.45)		
Sub-Total B - Distribution (includes			, 00			Ť	(0.0000)		_			, , , , ,		
Sub-Total A)				\$	32.24				\$	34.02	\$	1.78	5.53%	
RTSR - Network	\$	0.0076	775	\$	5.89	\$	0.0076	775	\$	5.89	\$	0.00	0.03%	
RTSR - Connection and/or Line and	_		775		4.00					4.00	_	0.00	0.000/	
Transformation Connection	\$	0.0052	775	\$	4.03	\$	0.0052	775	\$	4.03	A	0.00	0.03%	
Sub-Total C - Delivery (including Sub-				\$	42.16				\$	43.94	\$	1.79	4.24%	
Total B)				<u> </u>	.2				*		*			
Wholesale Market Service Charge	s	0.0034	775	\$	2.64	\$	0.0034	775	\$	2.64	\$	0.00	0.03%	
(WMSC)	*			Ψ	2.01	Υ.	0.000		*	2.0.	Ψ	0.00	0.0070	
Rural and Remote Rate Protection	s	0.0005	775	\$	0.39	\$	0.0005	775	\$	0.39	\$	0.00	0.03%	
(RRRP)	1.			l '		I								
Standard Supply Service Charge	\$	0.25	1	\$	0.25	\$	0.62	1	\$	0.62		0.37	148.00%	
TOU - Off Peak	\$	0.1010	488	\$	49.24	\$	0.1010	488	\$	49.24		-	0.00%	
TOU - Mid Peak	\$	0.1440	128	\$	18.36	\$	0.1440	128	\$	18.36		-	0.00%	
TOU - On Peak	\$	0.2080	135	\$	28.08	\$	0.2080	135	\$	28.08	\$	-	0.00%	
Total Bill on TOU (before Taxes)				\$	141.11				\$	143.26		2.16	1.53%	
HST		13%		\$	18.34		13%		\$	18.62		0.28	1.53%	
Ontario Electricity Rebate		31.8%		\$	(44.87)		31.8%		\$	(45.56)		(0.69)		
Total Bill on TOU				\$	114.58	L			\$	116.33	\$	1.75	1.53%	

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Customer Class: GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION RPP / Non-RPP: RPP

Consumption

2,000 kWh - kW 1.0335 1.0338 Demand

Current Loss Factor
Proposed/Approved Loss Factor

Proposed/Approved Loss Factor 1.033	В											
		Current Ol	B-Approve	d				Proposed	I		In	npact
		ate (\$)	Volume	Charge (\$)		Rat		Volume	Charge (\$)	\$ (Change	% Change
Monthly Service Charge	\$	19.32	1	\$		\$ 2	20.61		\$ 20.61	\$	1.29	6.68%
Distribution Volumetric Rate	\$	0.0250	2000	\$	50.00	\$ 0.	.0267	2000	\$ 53.40	\$	3.40	6.80%
Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$ -	\$	-	1
Volumetric Rate Riders	\$	0.0010	2000			\$ 0.	.0001	2000			(1.80)	-90.00%
Sub-Total A (excluding pass through)					71.32				\$ 74.21		2.89	4.05%
Line Losses on Cost of Power	\$	0.1276	67	\$	8.55	\$ 0.	.1276	68	\$ 8.62	\$	0.08	0.90%
Total Deferral/Variance Account Rate	¢	(0.0002)	2,000	¢	(0.40)	¢ .	_	2,000	e _	\$	0.40	-100.00%
Riders	a a	(0.0002)	-	Φ	(0.40)	φ -	-	•	-	φ	0.40	-100.0076
CBR Class B Rate Riders	\$	-	2,000	\$		\$ -	-	2,000	\$ -	\$	-	1
GA Rate Riders	\$	-	2,000		-	\$ -	-	-,	\$ -	\$	-	1
Low Voltage Service Charge	\$	0.00006	2,000	\$	0.12	\$ 0.0	00006	2,000	\$ 0.12	\$	-	0.00%
Smart Meter Entity Charge (if applicable)	e	0.57	1	\$	0.57	\$	0.57	4	\$ 0.57	\$	_	0.00%
	a a	0.57		Φ	0.57	φ	0.57		φ 0.57	φ	-	0.00 /6
Additional Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$ -	\$	-	1
Additional Volumetric Rate Riders			2,000	\$	-	\$ (0.	.0005)	2,000	\$ (1.00) \$	(1.00)	
Sub-Total B - Distribution (includes				s	30.16				\$ 82.52	\$	2.37	2.95%
Sub-Total A)				'					•			
RTSR - Network	\$	0.0071	2,067	\$	14.68	\$ 0.	.0071	2,068	\$ 14.68	\$	0.00	0.03%
RTSR - Connection and/or Line and	¢	0.0050	2,067	¢	10.34	\$ 0.	.0050	2,068	\$ 10.34	\$	0.00	0.03%
Transformation Connection	Ψ	0.0000	2,007	Ψ	10.54	Ψ 0.	.0000	2,000	Ψ 10.54	Ψ	0.00	0.0370
Sub-Total C - Delivery (including Sub-				\$ 10)5.17				\$ 107.54	\$	2.37	2.26%
Total B)				Ψ	,0				Ψ 101.04		2.01	2.2070
Wholesale Market Service Charge	s	0.0034	2,067	\$	7.03	\$ 0.	.0034	2,068	\$ 7.03	\$	0.00	0.03%
(WMSC)	"	0.0004	2,007	Ψ	7.00	Ψ 0.	.0004	2,000	1.00	Ψ	0.00	0.0070
Rural and Remote Rate Protection	\$	0.0005	2,067	\$	1.03	\$ 0.	.0005	2,068	\$ 1.03	\$	0.00	0.03%
(RRRP)	"		2,007					2,000	-	1		
Standard Supply Service Charge	\$	0.25	1	\$			0.62	1	\$ 0.62		0.37	148.00%
TOU - Off Peak	\$	0.1010	1,300				.1010	1,300			-	0.00%
TOU - Mid Peak	\$	0.1440	340				.1440	340	\$ 48.96		-	0.00%
TOU - On Peak	\$	0.2080	360	\$	74.88	\$ 0.	.2080	360	\$ 74.88	\$	-	0.00%
Total Bill on TOU (before Taxes)		·			88.62	·		·	\$ 371.37		2.75	0.74%
HST		13%			17.92		13%		\$ 48.28		0.36	0.74%
Ontario Electricity Rebate		31.8%			17.22)	:	31.8%		\$ (118.09		(0.87)	
Total Bill on TOU				\$ 25	99.32				\$ 301.55	\$	2.23	0.74%

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Customer Class: GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION
RPP / Non-RPP: Non-RPP (Other)

Consumption 51,000 kWh
Demand 50 kW
current Loss Factor 1.0338 Current Loss Factor Proposed/Approved Loss Factor

		Current OEB-Approved					Proposed		Impact		
	Rate		Volume	Charge		Rate	Volume	Charge	¢ Observe	0/ Oh	
	(\$)	222.22		(\$)	_	(\$)		(\$)	\$ Change	% Change	
Monthly Service Charge	\$	200.00	1	\$ 200.00		200.00	-	\$ 200.00		0.00%	
Distribution Volumetric Rate	\$	4.8760	50	\$ 243.80	\$	5.5079	50	\$ 275.40	\$ 31.60	12.96%	
Fixed Rate Riders	\$		1	\$ -	\$	(0.0705)	1	\$ -	\$ -	050 740/	
Volumetric Rate Riders	\$	0.1717	50			(0.2725)	50				
Sub-Total A (excluding pass through)				\$ 452.39	_			\$ 461.77		2.07%	
Line Losses on Cost of Power	\$	-	-	\$ -	\$	-	-	\$ -	\$ -		
Total Deferral/Variance Account Rate	\$	(0.0650)	50	\$ (3.25) \$	_	50	\$ -	\$ 3.25	-100.00%	
Riders	Ĭ.	(,			Ί.						
CBR Class B Rate Riders	\$	-	50		\$	-	50		\$ -		
GA Rate Riders	\$	(0.0015)	51,000			0.0026	,	\$ 132.60	\$ 209.10	-273.33%	
Low Voltage Service Charge	\$	0.02452	50	\$ 1.23	\$	0.02434	50	\$ 1.22	\$ (0.01)	-0.73%	
Smart Meter Entity Charge (if applicable)	e		1	\$ -			4	e	¢		
	Ψ	-	'	φ -		-		•	φ -		
Additional Fixed Rate Riders	\$	-	1	\$ -	\$	-	1	\$ -	\$ -		
Additional Volumetric Rate Riders			50	\$ -	\$	(0.2874)	50	\$ (14.37)	\$ (14.37)		
Sub-Total B - Distribution (includes				\$ 373.86				\$ 581.22	\$ 207.36	55.46%	
Sub-Total A)								,			
RTSR - Network	\$	2.9017	50	\$ 145.09	\$	2.9017	50	\$ 145.09	\$ -	0.00%	
RTSR - Connection and/or Line and	s	2.0474	50	\$ 102.37		2.0474	50	\$ 102.37	\$ -	0.00%	
Transformation Connection	Ψ	2.0474	30	φ 102.37	9	2.0474	50	\$ 102.37	φ -	0.0076	
Sub-Total C - Delivery (including Sub-				\$ 621.32				\$ 828.67	\$ 207.36	33.37%	
Total B)				φ 021.32				\$ 020.07	\$ 207.30	33.37 /0	
Wholesale Market Service Charge	s	0.0034	52,709	\$ 179.21	s	0.0034	52,724	\$ 179.26	\$ 0.05	0.03%	
(WMSC)	J.	0.0034	32,709	φ 1/9.21	Ψ	0.0034	32,124	\$ 175.20	φ 0.03	0.0370	
Rural and Remote Rate Protection		0.0005	50.700	¢ 00.05		0.0005	50.704		¢ 0.04	0.000/	
(RRRP)	Þ	0.0005	52,709	\$ 26.35	Þ	0.0005	52,724	\$ 26.36	\$ 0.01	0.03%	
Standard Supply Service Charge	\$	0.25	1	\$ 0.25	\$	0.62	1	\$ 0.62	\$ 0.37	148.00%	
Average IESO Wholesale Market Price	\$	0.1101	52,709	\$ 5,803.21	\$	0.1101	52,724	\$ 5,804.89	\$ 1.68	0.03%	
Total Bill on Average IESO Wholesale Market Price				\$ 6,630.34	T			\$ 6,839.81	\$ 209.47	3.16%	
HST		13%		\$ 861.94		13%		\$ 889.17		3.16%	
Ontario Electricity Rebate		31.8%		\$ -		31.8%		\$ -			
Total Bill on Average IESO Wholesale Market Price		31.070		\$ 7,492.28		31.070		\$ 7,728.98	\$ 236.70	3.16%	
Total 2 in 5117 (15 ago 1255) Wholesale Market Fried				7,702.20				7,720.00	200.70	0.1070	

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Current Loss Factor Proposed/Approved Loss Factor

		Current OF	B-Approved	ł				Proposed	1			Im	pact
	Rate (\$)		Volume	Charg	е		Rate (\$)	Volume		Charge (\$)	s	Change	% Change
Monthly Service Charge	\$	4.193.93	1		193.93	\$	4.193.93	1	\$	4.193.93		-	0.00%
Distribution Volumetric Rate	\$	4.4562	2500	\$ 11.	140.50	\$	5.1438	2500	\$	12,859.50	\$	1,719.00	15.43%
Fixed Rate Riders	\$	-	1	\$	-	\$	_	1	\$	-	\$	-	
Volumetric Rate Riders	\$	0.2427	2500	\$	606.75	\$	(0.2278)	2500	\$	(569.50)	\$	(1,176.25)	-193.86%
Sub-Total A (excluding pass through)				\$ 15,	941.18				\$	16,483.93	\$	542.75	3.40%
Line Losses on Cost of Power	\$	-	-	\$	-	\$	-	-	\$	-	\$	-	
Total Deferral/Variance Account Rate	e	(0.0719)	2,500	\$ (179.75)	\$		2.500	\$		\$	179.75	-100.00%
Riders	· ·	(0.07 19)	2,300	Φ (119.13)	φ	-	2,300	φ	-	φ	179.75	-100.0076
CBR Class B Rate Riders	\$	-		\$	-	\$	-	2,500	\$	-	\$	-	
GA Rate Riders	\$	(0.0015)		\$ (1,	916.25)	\$	0.0026	1,277,500	\$	3,321.50	\$	5,237.75	-273.33%
Low Voltage Service Charge	\$	0.02621	2,500	\$	65.53	\$	0.02601	2,500	\$	65.03	\$	(0.50)	-0.76%
Smart Meter Entity Charge (if applicable)	\$	-	1	\$	-	\$	-	1	\$	-	\$	-	
Additional Fixed Rate Riders	\$	-	1	\$	-	\$	_	1	\$	_	\$	_	
Additional Volumetric Rate Riders			2,500	\$	-	\$	(0.3159)	2,500	\$	(789.75)	\$	(789.75)	
Sub-Total B - Distribution (includes				\$ 13.	910.71		, ,	,	\$	19,080.71		5.170.00	37.17%
Sub-Total A)				a 13,	910.71				P	19,000.71	Ð	5,170.00	37.17%
RTSR - Network	\$	3.0128	2,500	\$ 7,	532.00	\$	3.0128	2,500	\$	7,532.00	\$		0.00%
RTSR - Connection and/or Line and	\$	2.1882	2,500	\$ 5.	470.50	\$	2.1882	2.500	\$	5.470.50	•	_	0.00%
Transformation Connection	¥	2.1002	2,300	Ψ 5,	470.50	¥	2.1002	2,300	Ψ	3,470.30	¥	_	0.0070
Sub-Total C - Delivery (including Sub-				\$ 26.	913.21				\$	32.083.21	\$	5.170.00	19.21%
Total B)				Ψ 20,	010.21				Ψ	02,000.21	۳	0,170.00	10.2170
Wholesale Market Service Charge	\$	0.0034	1,320,296	\$ 4	489.01	\$	0.0034	1,320,680	\$	4,490,31	\$	1.30	0.03%
(WMSC)	*	0.000	1,020,200	٠,	.00.0	*	0.000	1,020,000	*	.,	,	1.00	0.0070
Rural and Remote Rate Protection	\$	0.0005	1,320,296	\$	660.15	s	0.0005	1,320,680	\$	660.34	\$	0.19	0.03%
(RRRP)	l."		1,020,200			Ť		1,020,000	l i		'		
Standard Supply Service Charge	\$	0.25	1	\$	0.25	\$	0.62	1	\$	0.62		0.37	148.00%
Average IESO Wholesale Market Price	\$	0.1101	1,320,296	\$ 145,	364.62	\$	0.1101	1,320,680	\$	145,406.81	\$	42.20	0.03%
Total Bill on Average IESO Wholesale Market Price	1				427.23				\$	182,641.29		5,214.06	2.94%
HST		13%		\$ 23,	065.54		13%		\$	23,743.37	\$	677.83	2.94%
Ontario Electricity Rebate		31.8%		\$	-		31.8%		\$				
Total Bill on Average IESO Wholesale Market Price				\$ 200,	492.77				\$	206,384.66	\$	5,891.89	2.94%

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Current Loss Factor

Proposed/Approved Loss Factor

		Current Ol	B-Approved	t			Proposed			Impact		
	Rate (\$)		Volume	Charge (\$)		Rate (\$)	Volume	Charge (\$)	,	\$ Change	% Change	
Monthly Service Charge	\$	15,231.32	1	\$ 15,231.32	\$	15,231.32	1	\$ 15,231.32		-	0.00	
Distribution Volumetric Rate	\$	4.2422	7500	\$ 31,816.50	\$	5.3135	7500	\$ 39,851.25	\$	8,034.75	25.25	
Fixed Rate Riders	\$	-	1	\$ -	\$	-	1	\$ -	\$	-		
Volumetric Rate Riders	\$	0.1830	7500	\$ 1,372.50	\$	(0.2703)	7500	\$ (2,027.25)) \$	(3,399.75)	-247.70	
Sub-Total A (excluding pass through)				\$ 48,420.32				\$ 53,055.32	\$	4,635.00	9.57	
Line Losses on Cost of Power	\$	-	-	\$ -	\$	-	-	\$ -	\$	-		
Total Deferral/Variance Account Rate	\$	(0.0863)	7,500	\$ (647.25) \$	-	7,500	\$ -	\$	647.25	-100.00	
Riders CBR Class B Rate Riders			7.500	•			7,500	•				
GA Rate Riders	÷	(0.0015)	4,000,000		\ e	0.0026	4,000,000	\$ 10,400.00	\$	16,400.00	-273.33	
Low Voltage Service Charge	e e	0.02951	7.500			0.0020		\$ 10,400.00		(1.65)		
Smart Meter Entity Charge (if applicable)	a de la companya de l	0.02931	7,300	φ 221.33	Ψ	0.02929	7,500	\$ 215.00	φ	(1.03)	-0.73	
Smart Meter Entity Charge (ii applicable)	\$	-	1	\$ -	\$	-	1	\$ -	\$	-		
Additional Fixed Rate Riders	\$	-	1	\$ -	\$	-	1	\$ -	\$	-		
Additional Volumetric Rate Riders			7,500	\$ -	\$	(0.3099)	7,500	\$ (2,324.25)) \$	(2,324.25)		
Sub-Total B - Distribution (includes				\$ 41,994.40				\$ 61,350.75	\$	19,356.35	46.09	
Sub-Total A)	\$	0.0000	7.500		_		7.500			,	0.00	
RTSR - Network RTSR - Connection and/or Line and	Þ	3.3399	7,500	\$ 25,049.25	Þ	3.3399	7,500	\$ 25,049.25	Ъ	-	0.00	
Transformation Connection	\$	2.4642	7,500	\$ 18,481.50	\$	2.4642	7,500	\$ 18,481.50	\$	-	0.00	
Sub-Total C - Delivery (including Sub-				\$ 85,525.15				\$ 104.881.50	\$	19.356.35	22.63	
Total B)				+ 00,020.10				+ 101,001100	Ť	10,000.00		
Wholesale Market Service Charge (WMSC)	\$	0.0034	4,024,800	\$ 13,684.32	\$	0.0034	4,020,400	\$ 13,669.36	\$	(14.96)	-0.11	
Rural and Remote Rate Protection	\$	0.0005	4,024,800	\$ 2.012.40	\$	0.0005	4,020,400	\$ 2,010.20	\$	(2.20)	-0.11	
(RRRP)	Ĭ.		1,021,000		1.		.,020,.00		1	` ′		
Standard Supply Service Charge	\$	0.25	1	\$ 0.25		0.62	1	\$ 0.62		0.37	148.00	
Average IESO Wholesale Market Price	\$	0.1101	4,024,800	\$ 443,130.48	\$	0.1101	4,020,400	\$ 442,646.04	\$	(484.44)	-0.11	
Total Bill on Average IESO Wholesale Market Price				\$ 544,352.60				\$ 563,207.72		18,855.12	3.46	
HST		13%		\$ 70,765.84		13%		\$ 73,217.00	\$	2,451.17	3.46	
Ontario Electricity Rebate		31.8%		5 -		31.8%		\$ -		04 000 55		
Total Bill on Average IESO Wholesale Market Price				\$ 615,118.43				\$ 636,424.72	\$	21,306.29	3.46	

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Customer Class: UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION RPP / Non-RPP: RPP

RPP / Non-RPP:		CATTERE	D LOAD SERVICE C	LASSIFICAT	ION									
Consumption	470	L/A/In			l									
· •														
Demand		kW												
Current Loss Factor	1.0335													
Proposed/Approved Loss Factor	1.0338													
	ĺ		Current OF	B-Approved	4				Proposed				lm	pact
			Rate	Volume	_	Charge		Rate	Volume		Charge			paci
			(\$)	Volumo		(\$)		(\$)	Volume		(\$)	\$ (Change	% Change
Monthly Service Charge		\$	5.09	1	\$	5.09	\$	5.60	1	\$	5.60		0.51	10.02%
Distribution Volumetric Rate		\$	0.0242	470	\$	11.37	\$	0.0263	470	\$	12.36	\$	0.99	8.68%
Fixed Rate Riders		\$	-	1	\$	-	\$	-	1	\$	-	\$	-	
Volumetric Rate Riders		\$	0.0013	470		0.61	\$	(0.0006)	470		(0.28)		(0.89)	-146.15%
Sub-Total A (excluding pass through)					\$	17.08	L			\$	17.68		0.60	3.54%
Line Losses on Cost of Power		\$	0.1276	16	\$	2.01	\$	0.1276	16	\$	2.03	\$	0.02	0.90%
Total Deferral/Variance Account Rate		\$	(0.0002)	470	\$	(0.09)	\$	-	470	\$	_	\$	0.09	-100.00%
Riders			(,	470		()	Ľ		470					
CBR Class B Rate Riders		\$	-	470 470	\$	-	\$	-	470	\$	-	\$	-	
GA Rate Riders		\$	-	470 470	\$	-	Ψ.	-	470	\$	-	\$	-	0.00%
Low Voltage Service Charge		Þ	0.00006	470	Э	0.03	\$	0.00006	470	\$	0.03	\$	-	0.00%
Smart Meter Entity Charge (if applicable)		\$	-	1	\$	-	\$	-	1	\$	-	\$	-	
Additional Fixed Rate Riders		\$	_	1	\$	_	\$	_	1	\$	_	\$	-	
Additional Volumetric Rate Riders				470	\$	_	\$	(0.0012)	470	\$	(0.56)	\$	(0.56)	
Sub-Total B - Distribution (includes					4	19.02					19.17	•	0.15	0.80%
Sub-Total A)					44					\$				
RTSR - Network		\$	0.0071	486	\$	3.45	\$	0.0071	486	\$	3.45	\$	0.00	0.03%
RTSR - Connection and/or Line and		\$	0.0050	486	\$	2.43	\$	0.0050	486	\$	2.43	\$	0.00	0.03%
Transformation Connection		•	0.0000	400	Ψ	2.40	Ľ	0.0000	400	۳	2.40	Ψ	0.00	0.0070
Sub-Total C - Delivery (including Sub- Total B)					\$	24.90				\$	25.05	\$	0.15	0.62%
Wholesale Market Service Charge							+							
(WMSC)		\$	0.0034	486	\$	1.65	\$	0.0034	486	\$	1.65	\$	0.00	0.03%
Rural and Remote Rate Protection							١.							
(RRRP)		\$	0.0005	486	\$	0.24	\$	0.0005	486	\$	0.24	\$	0.00	0.03%
Standard Supply Service Charge		\$	0.25	1	\$	0.25	\$	0.62	1	\$	0.62	\$	0.37	148.00%
TOU - Off Peak		\$	0.1010	306	\$	30.86	\$	0.1010	306	\$	30.86	\$	-	0.00%
TOU - Mid Peak		\$	0.1440	80	\$	11.51	\$	0.1440	80	\$	11.51	\$	-	0.00%
TOU - On Peak		\$	0.2080	85	\$	17.60	\$	0.2080	85	\$	17.60	\$	-	0.00%
Total Bill on TOU (before Taxes)			-		\$	87.00				\$	87.52		0.52	0.60%
HST			13%		\$	11.31		13%		\$	11.38		0.07	0.60%
Ontario Electricity Rebate			31.8%		\$	(27.67)		31.8%		\$	(27.83)		(0.17)	
Total Bill on TOU					\$	70.64	L			\$	71.07	\$	0.43	0.60%

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| Customer Class: | SENTINEL LIGHTING SERVICE CLASSIFICATION | RPP / Non-RPP: | RPP | Consumption | 94 | kW | | kW | Current Loss Factor | 1.0335 | Proposed/Approved Loss Factor | 1.0338 | |

		B-Approved	d		Proposed					Impact		pact	
		Rate	Volume		Charge		Rate	Volume		Charge			
		(\$)			(\$)		(\$)			(\$)		Change	% Change
Monthly Service Charge	\$	3.17		\$	3.17	\$	3.91	1	-	3.91		0.74	23.34%
Distribution Volumetric Rate	\$	14.8502	0.4	\$	5.94	\$	18.3405	0.4	\$	7.34		1.40	23.50%
Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$	-	\$	-	
Volumetric Rate Riders	\$	1.0461	0.4		0.42	\$	(0.0016)	0.4		(0.00)		(0.42)	-100.15%
Sub-Total A (excluding pass through)				\$	9.53				\$	11.25		1.72	18.02%
Line Losses on Cost of Power	\$	0.1276	3	\$	0.40	\$	0.1276	3	\$	0.41	\$	0.00	0.90%
Total Deferral/Variance Account Rate	\$	(0.0563)	0	\$	(0.02)	\$	_	0	\$	_	\$	0.02	-100.00%
Riders	*	(0.0000)		l '	(0.02)	۳	_	•	· .	_	7	0.02	100.0070
CBR Class B Rate Riders	\$	-	0	\$	-	\$	-	0	\$	-	\$	-	
GA Rate Riders	\$	-	94	\$	-	\$	-	94	\$	-	\$	-	
Low Voltage Service Charge	\$	0.01822	0	\$	0.01	\$	0.01808	0	\$	0.01	\$	(0.00)	-0.77%
Smart Meter Entity Charge (if applicable)	و	_	1	\$		¢	_	1	•		\$	_	
	*	_		l '		Ψ	_		Ψ	_		-	
Additional Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$	-	\$	-	
Additional Volumetric Rate Riders			0	\$	-	\$	(0.2039)	0	\$	(80.0)	\$	(80.0)	
Sub-Total B - Distribution (includes				\$	9.92				\$	11.58	\$	1.66	16.76%
Sub-Total A)												1.00	
RTSR - Network	\$	2.1420	0	\$	0.86	\$	2.1420	0	\$	0.86	\$	-	0.00%
RTSR - Connection and/or Line and	s	1.5211	0	\$	0.61	\$	1.5210	0	\$	0.61	\$	(0.00)	-0.01%
Transformation Connection	*	1.0211	Ü	Ψ	0.01	•	1.0210	•	Ψ	0.01	¥	(0.00)	0.0170
Sub-Total C - Delivery (including Sub-				\$	11.38				\$	13.04	\$	1.66	14.60%
Total B)				_					*		_		
Wholesale Market Service Charge	s	0.0034	97	\$	0.33	\$	0.0034	97	\$	0.33	\$	0.00	0.03%
(WMSC)	*	0.000	0.	Ψ.	0.00	*	0.000	•	*	0.00	Ψ	0.00	0.0070
Rural and Remote Rate Protection	s	0.0005	97	\$	0.05	\$	0.0005	97	\$	0.05	\$	0.00	0.03%
(RRRP)	1.			l '		Ĭ			1				
Standard Supply Service Charge	\$	0.25	1	\$		\$	0.62	. 1	\$	0.62		0.37	148.00%
TOU - Off Peak	\$	0.1010	61	\$	6.17	\$	0.1010	61	\$	6.17		-	0.00%
TOU - Mid Peak	\$	0.1440	16	\$	2.30	\$	0.1440	16	\$	2.30		-	0.00%
TOU - On Peak	\$	0.2080	17	\$	3.52	\$	0.2080	17	\$	3.52	\$	-	0.00%
Total Bill on TOU (before Taxes)				\$	24.00				\$	26.03		2.03	8.46%
HST		13%		\$	3.12		13%		\$	3.38		0.26	8.46%
Ontario Electricity Rebate		31.8%		\$	(7.63)		31.8%		\$	(8.28)		(0.65)	
Total Bill on TOU				\$	19.49				\$	21.14	\$	1.65	8.46%

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Customer Class: STREET LIGHTING SERVICE CLASSIFICATION
RPP / Non-RPP:
RPP 150 kWh 1 kW 1.0335 1.0338 Consumption Demand

Current Loss Factor Proposed/Approved Loss Factor

	Current O		Proposed	i	In	npact		
	Rate	Volume	Charge	Rate	Volume	Charge		
	(\$)		(\$)	(\$)		(\$)	\$ Change	% Change
Monthly Service Charge	\$ 0.91	1	\$ 0.91	\$ 0.95	1	\$ 0.95		4.40%
Distribution Volumetric Rate	\$ 6.3414	1	\$ 6.34	\$ 6.6719	1	\$ 6.67		5.21%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ 0.5107	1	\$ 0.51	\$ (0.1619)	1	\$ (0.16)		-131.70%
Sub-Total A (excluding pass through)			\$ 7.76			\$ 7.46		-3.89%
Line Losses on Cost of Power	\$ 0.1276	5	\$ 0.64	\$ 0.1276	5	\$ 0.65	\$ 0.01	0.90%
Total Deferral/Variance Account Rate	\$ (0.0609)	1	\$ (0.06)	s -	1	s -	\$ 0.06	-100.00%
Riders	\$ (0.0609)	'	φ (0.00)	φ -	'	-	φ 0.00	-100.0076
CBR Class B Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
GA Rate Riders	\$ -	150	\$ -	\$ -	150	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0186	1	\$ 0.02	\$ 0.01846	1	\$ 0.02	\$ (0.00)	-0.75%
Smart Meter Entity Charge (if applicable)			\$ -			•	\$ -	
	-	1	5 -	> -	1	a -	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders		1	\$ -	\$ (0.3658)	1	\$ (0.37)	\$ (0.37)	
Sub-Total B - Distribution (includes							40.00	= 400/
Sub-Total A)			\$ 8.36			\$ 7.76	\$ (0.60)	-7.19%
RTSR - Network	\$ 2.1529	1	\$ 2.15	\$ 2.1529	1	\$ 2.15	\$ -	0.00%
RTSR - Connection and/or Line and	\$ 1.5528	1	\$ 1.55	\$ 1.5528	1	\$ 1.55	c	0.00%
Transformation Connection	3 1.5520	'	\$ 1.55	\$ 1.5528		ş 1.55	\$ -	0.00%
Sub-Total C - Delivery (including Sub-			\$ 12.07			\$ 11.47	¢ (0.00)	4.000/
Total B)			\$ 12.07			\$ 11.47	\$ (0.60)	-4.98%
Wholesale Market Service Charge	\$ 0.0034	155	\$ 0.53	\$ 0.0034	155	\$ 0.53	\$ 0.00	0.03%
(WMSC)	\$ 0.0034	155	φ 0.55	\$ 0.0034	155	ş 0.55	φ 0.00	0.03%
Rural and Remote Rate Protection	\$ 0.0005	155	\$ 0.08	\$ 0.0005	155	\$ 0.08	\$ 0.00	0.03%
(RRRP)	\$ 0.0005	155	Φ 0.06	\$ 0.0005	155	\$ U.U0	φ 0.00	0.03%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.62	1	\$ 0.62	\$ 0.37	148.00%
TOU - Off Peak	\$ 0.1010	98	\$ 9.85	\$ 0.1010	98	\$ 9.85	\$ -	0.00%
TOU - Mid Peak	\$ 0.1440	26	\$ 3.67	\$ 0.1440	26	\$ 3.67	\$ -	0.00%
TOU - On Peak	\$ 0.2080	27	\$ 5.62	\$ 0.2080	27	\$ 5.62	\$ -	0.00%
Total Bill on TOU (before Taxes)			\$ 32.06			\$ 31.83	\$ (0.23)	-0.72%
HST	13%	1	\$ 4.17	13%		\$ 4.14		-0.72%
Ontario Electricity Rebate	31.8%		\$ -	31.8%		\$ -	\$ -	
Total Bill on TOU			\$ 36.22			\$ 35.96	\$ (0.26)	-0.72%
							. , , ,	

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Customer Class: RESIDENTIAL SERVICE CLASSIFICATION RPP / Non-RPP: RPP

	Current OEB-Approved				Proposed		Impact		
	Rate	Volume	Charge	Rate	Volume	Charge			
	(\$)		(\$)	(\$)		(\$)	\$ Change	% Change	
Monthly Service Charge	\$ 27.79	1	\$ 27.79	\$ 30.59		4 00.00		10.08%	
Distribution Volumetric Rate	\$ -	232	\$ -	\$ -	232		\$ -		
Fixed Rate Riders	\$ 0.85	1	\$ 0.85	\$ 0.03		\$ 0.03	\$ (0.82)	-96.47%	
Volumetric Rate Riders	\$ -	232	\$ -	\$ -	232		\$ -		
Sub-Total A (excluding pass through)			\$ 28.64			\$ 30.62		6.91%	
Line Losses on Cost of Power	\$ 0.1276	8	\$ 0.99	\$ 0.1276	8	\$ 1.00	\$ 0.01	0.90%	
Total Deferral/Variance Account Rate	\$ (0.0003)	232	\$ (0.07)	s -	232	\$ -	\$ 0.07	-100.00%	
Riders	(0.0000)	-	. ,	Ĭ		*	,	100.0070	
CBR Class B Rate Riders	\$ -	232	\$ -	\$ -	232	\$ -	\$ -		
GA Rate Riders	\$ -	232	\$ -	\$ -	232	\$ -	\$ -		
Low Voltage Service Charge	\$ 0.00006	232	\$ 0.01	\$ 0.00006	232	\$ 0.01	\$ -	0.00%	
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%	
Additional Fixed Rate Riders	•	1	\$ -	s -	1	\$ -	\$ -		
Additional Volumetric Rate Riders	•	232	\$ -	\$ (0.0006	232	\$ (0.14)			
Sub-Total B - Distribution (includes		202	,	(0.0000	, 202	1 (4.1.7)	, ,		
Sub-Total A)			\$ 30.15			\$ 32.07	\$ 1.92	6.37%	
RTSR - Network	\$ 0.0076	240	\$ 1.82	\$ 0.0076	240	\$ 1.82	\$ 0.00	0.03%	
RTSR - Connection and/or Line and		0.40			0.40		1	0.000/	
Transformation Connection	\$ 0.0052	240	\$ 1.25	\$ 0.0052	240	\$ 1.25	\$ 0.00	0.03%	
Sub-Total C - Delivery (including Sub-			\$ 33.21			\$ 35.14	\$ 1.92	5.78%	
Total B) Wholesale Market Service Charge									
(WMSC)	\$ 0.0034	240	\$ 0.82	\$ 0.0034	240	\$ 0.82	\$ 0.00	0.03%	
Rural and Remote Rate Protection									
(RRRP)	\$ 0.0005	240	\$ 0.12	\$ 0.0005	240	\$ 0.12	\$ 0.00	0.03%	
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.62	1	\$ 0.62	\$ 0.37	148.00%	
TOU - Off Peak	\$ 0.1010	151	\$ 15.23	\$ 0.1010	151	\$ 15.23		0.00%	
TOU - Mid Peak	\$ 0.1440	39	\$ 5.68	\$ 0.1440	39	\$ 5.68		0.00%	
TOU - On Peak	\$ 0.2080	42						0.00%	
	0.2000	72	ψ 0.00	, U.2000	72	+ 0.00	<u> </u>	0.0070	
Total Bill on TOU (before Taxes)			\$ 64.00			\$ 66.29	\$ 2.29	3.58%	
HST	13%		\$ 8.32	13%	5	\$ 8.62	\$ 0.30	3.58%	
Ontario Electricity Rebate	31.8%		\$ (20.35)	31.8%		\$ (21.08)			
Total Bill on TOU			\$ 51.96			\$ 53.82		3.58%	

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Customer Class: RESIDENTIAL SERVICE CLASSIFICATION RPP / Non-RPP: RPP

Rate (s) Volume (c) Rate (s) Volume (c) Rate (s) Volume (c) Rate (s) Volume (c) Rate (s) Volume (c) Rate (s) Volume (c) Rate (s) Volume (c) Rate (s) Volume (c) Rate (s) Rate	10.08% -96.47% -9.09% -100.00% -0.00%
Monthly Service Charge \$ 27.79 1 \$ 27.79 \$ 30.59 1 \$ 30.59 \$ 2.80 Distribution Volumetric Rate \$ - 640 \$ - \$ - 640 \$ - \$ - \$ - 640 Fixed Rate Riders \$ 0.85 1 \$ 0.85 \$ 0.03 1 \$ 0.03 \$ (0.82) Volumetric Rate Riders \$ - 640 \$ - \$ - \$ - 640 Sub-Total A (excluding pass through) \$ 28.64 \$ 30.62 \$ 1.98 Line Losses on Cost of Power \$ 0.1276 21 \$ 2.74 \$ 0.1276 22 \$ 2.76 \$ 0.02 Total Deferral/Variance Account Rate \$ (0.0003) 640 \$ (0.19) \$ - 640 \$ - \$ 0.19 Riders \$ - 640 \$ - \$ - \$ - \$ 640 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	10.08% -96.47% 6.91% 0.90% -100.00%
Distribution Volumetric Rate \$	-96.47% 6.91% 0.90% -100.00%
Fixed Rate Riders \$ 0.85 1 \$ 0.85 \$ 0.03 1 \$ 0.03 \$ (0.82)	6.91% 0.90% -100.00%
Volumetric Rate Riders \$ - 640 \$ - <td>6.91% 0.90% -100.00%</td>	6.91% 0.90% -100.00%
Sub-Total A (excluding pass through) \$ 28.64 \$ 30.62 \$ 1.98 Line Losses on Cost of Power \$ 0.1276 21 \$ 2.74 \$ 0.1276 22 \$ 0.02 Total Deferral/Variance Account Rate Riders \$ (0.0003) 640 \$ (0.19) - 640 \$ - \$ 0.19 CBR Class B Rate Riders \$ - 640 \$ - \$ - 640 \$ - \$ - \$ - 640 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0.90% -100.00% 0.00%
Line Losses on Cost of Power \$ 0.1276 21 \$ 2.74 \$ 0.1276 22 \$ 2.76 \$ 0.02 Total Deferral/Variance Account Rate Riders \$ (0.0003) 640 \$ (0.19) \$ - 640 \$ - \$ 0.19 CBR Class B Rate Riders \$ - 640 \$ - \$ - 640 \$ - \$ - \$ -	0.90% -100.00% 0.00%
Total Deferral/Variance Account Rate Riders \$ (0.0003) 640 \$ (0.19) \$ - 640 \$ - \$ 0.19 CBR Class B Rate Riders \$ - 640 \$ - <	-100.00% 0.00%
Riders	0.00%
Riders CBR Class B Rate Riders \$ - 640 \$ - \$ - 640 \$ - \$ -	0.00%
Low Voltage Service Charge \$ 0.0006 640 \$ 0.04 \$ 0.0006 640 \$ -	0.000/
Smart Meter Entity Charge (if applicable) \$ 0.57 1 \$ 0.57 \$ 0.57 1 \$ 0.57 \$ -	0.00%
Additional Fixed Rate Riders \$ - 1 \$ - \$ - 1 \$ - \$ -	
Additional Volumetric Rate Riders 640 \$ - \$ (0.0006) 640 \$ (0.38)	
Cub Tatal D. Distribution (includes	
Sub-Total A) \$ 31.79 \$ 33.60 \$ 1.81 Sub-Total A)	5.70%
RTSR Network \$ 0.0076 661 \$ 5.03 \$ 0.0076 662 \$ 5.03 \$ 0.00	0.03%
RTSR - Connection and/or Line and	0.000/
\$ 0.0052 661 \$ 3.44 \$ 0.0052 662 \$ 3.44 \$ 0.00 Transformation Connection \$ 0.0052 661 \$ 3.44 \$ 0.00	0.03%
Sub-Total C - Delivery (including Sub- \$ 40.26 \$ 42.07 \$ 1.81	4.51%
Total B) Wholesale Market Service Charge	
	0.03%
(WMSC) Rural and Remote Rate Protection	
(RRRP) \$ 0.0005 661 \$ 0.33 \$ 0.0005 662 \$ 0.33 \$ 0.00	0.03%
(KKR') \$ 0.25 1 \$ 0.62 1 \$ 0.62 \$ 0.37	148.00%
Standard Supply Service Charge \$ 0.25 1 0.25 1 0.05 1 0.05 0.07 TOU - Off Peak \$ 0.1010 416 \$ 42.02 \$ 0.1010 416 \$ 42.02 \$ -	0.00%
TOU - Mid Peak \$ 0.1440 109 \$ 15.67 \$ 0.1440 109 \$ 15.67 \$ -	0.00%
TOU - On Peak \$ 0.2080 115 \$ 23.96 \$ 0.2080 115 \$ 23.96 \$ -	0.00%
100 011 001 110 0 20:00 0 110 0 20:00 0 1	0.0070
Total Bill on TOU (before Taxes) \$ 124.73 \$ 126.92 \$ 2.19	1.75%
HST 13% \$ 16.22 13% \$ 16.50 \$ 0.28	1.75%
Ontario Electricity Rebate 31.8% \$ (39.66) 31.8% \$ (40.36) \$ (0.70)	
Total Bill on TOU \$ 101.28 \$ 103.06 \$ 1.77	1.75%

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Customer Class: RESIDENTIAL SERVICE CLASSIFICATION RPP / Non-RPP: RPP

		Current OEB-Approved						Proposed	l	Impact		
		Rate (\$)	Volume	Charge (\$)			Rate (\$)	Volume	Charge (\$)	s	Change	% Change
Monthly Service Charge	\$	27.79	1		7.79	\$	30.59	1	\$ 30.59		2.80	10.08%
Distribution Volumetric Rate	Š		800		-	Š	-	800		\$	-	
Fixed Rate Riders	Š	0.85	1		0.85	Š	0.03	1	\$ 0.03	\$	(0.82)	-96.47%
Volumetric Rate Riders	Š		800		-	\$		800		\$	-	
Sub-Total A (excluding pass through)					3.64				\$ 30.62	\$	1.98	6.91%
Line Losses on Cost of Power	\$	0.1276	27	\$	3.42	\$	0.1276	27	\$ 3.45	\$	0.03	0.90%
Total Deferral/Variance Account Rate		(0.0000)	000		204					_	0.04	100.000/
Riders	\$	(0.0003)	800	\$ (0.24)	\$	-	800	\$ -	\$	0.24	-100.00%
CBR Class B Rate Riders	\$	-	800	\$	-	\$	-	800	\$ -	\$	-	
GA Rate Riders	\$	-	800	\$	-	\$	-	800	\$ -	\$	-	
Low Voltage Service Charge	\$	0.00006	800	\$	0.05	\$	0.00006	800	\$ 0.05	\$	-	0.00%
Smart Meter Entity Charge (if applicable)		0.57	1	\$	0.57	s	0.57	4	\$ 0.57	•	_	0.00%
	ð	0.57	1	Ф	J.51	Þ	0.57	1	\$ 0.57	Ф	-	0.00%
Additional Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$ -	\$	-	
Additional Volumetric Rate Riders			800	\$	-	\$	(0.0006)	800	\$ (0.48)) \$	(0.48)	
Sub-Total B - Distribution (includes				\$ 3	2.44				\$ 34.21	•	1.77	5.46%
Sub-Total A)									•			
RTSR - Network	\$	0.0076	827	\$	6.28	\$	0.0076	827	\$ 6.29	\$	0.00	0.03%
RTSR - Connection and/or Line and	\$	0.0052	827	\$	4.30	\$	0.0052	827	\$ 4.30	\$	0.00	0.03%
Transformation Connection		0.0002	021	¥	1.00	•	0.0002	021	4.00	Ψ	0.00	0.0070
Sub-Total C - Delivery (including Sub-				\$ 4	3.02				\$ 44.79	\$	1.77	4.12%
Total B)				•					*	Ť		
Wholesale Market Service Charge	\$	0.0034	827	\$	2.81	\$	0.0034	827	\$ 2.81	\$	0.00	0.03%
(WMSC)	*	0.000	02.	•		*	0.000	02.	2.01	, T	0.00	0.0070
Rural and Remote Rate Protection	\$	0.0005	827	\$	0.41	\$	0.0005	827	\$ 0.41	\$	0.00	0.03%
(RRRP)				•					1	1		
Standard Supply Service Charge	\$	0.25	1		0.25		0.62	1	\$ 0.62		0.37	148.00%
TOU - Off Peak	\$	0.1010	520				0.1010	520	\$ 52.52		-	0.00%
TOU - Mid Peak	\$	0.1440	136		9.58		0.1440	136	\$ 19.58		-	0.00%
TOU - On Peak	\$	0.2080	144	\$ 2	9.95	\$	0.2080	144	\$ 29.95	\$	-	0.00%
Total Bill on TOU (before Taxes)					8.55		4001		\$ 150.70		2.14	1.44%
HST		13%			9.31		13%		\$ 19.59		0.28	1.44%
Ontario Electricity Rebate		31.8%			7.24)		31.8%		\$ (47.92		(0.68)	4
Total Bill on TOU				\$ 12	0.62				\$ 122.36	\$	1.74	1.44%

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Customer Class: RESIDENTIAL SERVICE CLASSIFICATION RPP / Non-RPP: RPP

		Current Of	B-Approve	d	Proposed						lm	pact	
		Rate	Volume		Charge		Rate	Volume		Charge			
		(\$)			(\$)		(\$)			(\$)	\$	Change	% Change
Monthly Service Charge	\$	27.79	1	\$	27.79	\$	30.59	1	\$	30.59	\$	2.80	10.08%
Distribution Volumetric Rate	\$	-	1000	\$	-	\$	-	1000	\$	-	\$	-	
Fixed Rate Riders	\$	0.85	1	\$	0.85	\$	0.03	1	\$	0.03	\$	(0.82)	-96.47%
Volumetric Rate Riders	\$		1000	\$	-	\$	-	1000	\$	-	\$	-	
Sub-Total A (excluding pass through)				\$	28.64				\$	30.62	\$	1.98	6.91%
Line Losses on Cost of Power	\$	0.1276	34	\$	4.27	\$	0.1276	34	\$	4.31	\$	0.04	0.90%
Total Deferral/Variance Account Rate	\$	(0.0003)	1,000	\$	(0.30)	\$	_	1.000	s	_	\$	0.30	-100.00%
Riders	1.	(0.000)			(0.00)	Ť	_	,	*			0.00	100.0070
CBR Class B Rate Riders	\$	-	1,000		-	\$	-	1,000	\$	-	\$	-	
GA Rate Riders	\$		1,000			\$		1,000	\$		\$	-	
Low Voltage Service Charge	\$	0.00006	1,000	\$	0.06	\$	0.00006	1,000	\$	0.06	\$	-	0.00%
Smart Meter Entity Charge (if applicable)	\$	0.57	1	\$	0.57	\$	0.57	1	\$	0.57	\$	-	0.00%
Additional Fixed Rate Riders	\$	_	1	\$	_	\$	_	1	\$	_	\$	_	
Additional Volumetric Rate Riders	Ψ	_	1,000	\$		\$	(0.0006)	1,000	\$	(0.60)		(0.60)	
Sub-Total B - Distribution (includes			1,000	Ť		_	(0.0000)	1,000	Ť		_		
Sub-Total A)				\$	33.24				\$	34.96	\$	1.72	5.17%
RTSR - Network	\$	0.0076	1,034	\$	7.85	\$	0.0076	1.034	\$	7.86	\$	0.00	0.03%
RTSR - Connection and/or Line and	·			1	5.07			4.004				0.00	0.000/
Transformation Connection	\$	0.0052	1,034	\$	5.37	\$	0.0052	1,034	\$	5.38	\$	0.00	0.03%
Sub-Total C - Delivery (including Sub-				\$	46.47				\$	48.19	\$	1.72	3.71%
Total B) Wholesale Market Service Charge													
	\$	0.0034	1,034	\$	3.51	\$	0.0034	1,034	\$	3.51	\$	0.00	0.03%
(WMSC) Rural and Remote Rate Protection													
(RRRP)	\$	0.0005	1,034	\$	0.52	\$	0.0005	1,034	\$	0.52	\$	0.00	0.03%
Standard Supply Service Charge	•	0.25	1	\$	0.25	•	0.62	-1	\$	0.62	¢	0.37	148.00%
TOU - Off Peak	Š	0.1010	650	\$	65.65	\$	0.1010	650	\$	65.65		0.57	0.00%
TOU - Mid Peak	š	0.1440	170	\$	24.48	Š	0.1440	170	Š	24.48		-	0.00%
TOU - On Peak	Š	0.2080	180		37.44	Š	0.2080	180		37.44		_	0.00%
	1 7	0.2000	100	Ť	07.44	Ψ.	J.2000	100	Ť	01.44	Ÿ		0.0070
Total Bill on TOU (before Taxes)				\$	178.32				\$	180.42	\$	2.09	1.17%
HST		13%		\$	23.18		13%		\$	23.45	\$	0.27	1.17%
Ontario Electricity Rebate		31.8%		\$	(56.71)		31.8%		\$	(57.37)		(0.67)	
Total Bill on TOU				\$	144.80				\$	146.50	\$	1.70	1.17%

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Customer Class: GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION RPP / Non-RPP: RPP

		Current Of	B-Approve	d		Proposed						lm	pact
		Rate	Volume		Charge		Rate	Volume		Charge			
		(\$)			(\$)		(\$)			(\$)	\$	Change	% Change
Monthly Service Charge	\$	19.32	1	\$	19.32	\$	20.61	1	Ψ	20.61		1.29	6.68%
Distribution Volumetric Rate	\$	0.0250	1000	\$	25.00	\$	0.0267	1000	\$	26.70	\$	1.70	6.80%
Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$	-	\$	-	
Volumetric Rate Riders	\$	0.0010	1000	\$	1.00	\$	0.0001	1000	\$	0.10	\$	(0.90)	-90.00%
Sub-Total A (excluding pass through)				\$	45.32				\$	47.41	\$	2.09	4.61%
Line Losses on Cost of Power	\$	0.1276	34	\$	4.27	\$	0.1276	34	\$	4.31	\$	0.04	0.90%
Total Deferral/Variance Account Rate	\$	(0.0002)	1,000	\$	(0.20)	\$	_	1.000	s	_	\$	0.20	-100.00%
Riders		(0.0002)			(0.20)	Ť	_	,	*			0.20	100.0070
CBR Class B Rate Riders	\$	-	1,000		-	\$	-	1,000	\$	-	\$	-	
GA Rate Riders	\$		1,000			\$		1,000	\$		\$	-	
Low Voltage Service Charge	\$	0.00006	1,000	\$	0.06	\$	0.00006	1,000	\$	0.06	\$	-	0.00%
Smart Meter Entity Charge (if applicable)	\$	0.57	1	\$	0.57	\$	0.57	1	\$	0.57	\$	-	0.00%
Additional Fixed Rate Riders	s	_	1	\$	_	s	_	1	\$	_	\$	_	
Additional Volumetric Rate Riders	*		1,000	\$	_	Š	(0.0005)	1,000	Š	(0.50)		(0.50)	
Sub-Total B - Distribution (includes			1,000	Ť		Ť	(0.0000)	.,000			-		
Sub-Total A)				\$	50.02				\$	51.85	\$	1.83	3.65%
RTSR - Network	\$	0.0071	1,034	\$	7.34	\$	0.0071	1,034	\$	7.34	\$	0.00	0.03%
RTSR - Connection and/or Line and	s	0.0050	4.004		5.17		0.0050	4.004		5.17		0.00	0.000/
Transformation Connection	•	0.0050	1,034	Þ	5.17	\$	0.0050	1,034	\$	5.17	Þ	0.00	0.03%
Sub-Total C - Delivery (including Sub-				\$	62.53				\$	64.36	\$	1.83	2.93%
Total B)				-							· ·		
Wholesale Market Service Charge	\$	0.0034	1,034	\$	3.51	\$	0.0034	1,034	\$	3.51	\$	0.00	0.03%
(WMSC) Rural and Remote Rate Protection								,			`		
	\$	0.0005	1,034	\$	0.52	\$	0.0005	1,034	\$	0.52	\$	0.00	0.03%
(RRRP) Standard Supply Service Charge	e	0.25	-1	\$	0.25		0.62	4	s	0.62	æ	0.37	148.00%
TOU - Off Peak	, a	0.1010	650	\$	65.65	\$	0.1010	650	\$	65.65		0.37	0.00%
TOU - Mid Peak	ě	0.1440	170	\$	24.48	\$	0.1440	170	Š	24.48		-	0.00%
TOU - On Peak	e e	0.2080	180		37.44	\$	0.2080	180		37.44			0.00%
100 CITT CLIK	Ψ	0.2000	100	Ψ	37.44	Ψ	0.2000	100	Ÿ	37.44	Ψ	_	0.0070
Total Bill on TOU (before Taxes)	T			\$	194.38				\$	196.58	\$	2.20	1.13%
HST		13%		\$	25.27		13%		\$	25.56		0.29	1.13%
Ontario Electricity Rebate		31.8%		\$	(61.81)		31.8%		\$	(62.51)		(0.70)	1.1370
Total Bill on TOU		31.070		\$	157.84		31.070		\$	159.63		1.79	1.13%
TOWN DIR ON TOO				Ť	101.04				Ť	100.00		1.70	1.1078

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Customer Class: GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION RPP / Non-RPP: RPP

		Current OF	B-Approved	ı				Proposed				lm	pact
		Rate (\$)	Volume		arge \$)		Rate (\$)	Volume		Charge (\$)		hange	% Change
Monthly Service Charge	\$	19.32	1	\$	19.32	\$	20.61	1	\$	20.61	\$	1.29	6.68
Distribution Volumetric Rate	\$	0.0250	15000	\$	375.00	\$	0.0267	15000	\$	400.50	\$	25.50	6.80
Fixed Rate Riders	\$	-	1	\$		\$	-	1	\$	-	\$	-	
Volumetric Rate Riders	\$	0.0010	15000	\$	15.00	\$	0.0001	15000	\$	1.50	\$	(13.50)	-90.00
Sub-Total A (excluding pass through)				\$	409.32				\$	422.61	\$	13.29	3.25
Line Losses on Cost of Power	\$	-	-	\$	-	\$			\$	-	\$		
Total Deferral/Variance Account Rate		(0.0002)	15,000	\$	(3.00)			15,000	s		\$	3.00	-100.00
Riders	ð	(0.0002)	15,000	Ф	(3.00)	Þ	-	15,000	Þ	-	Ф	3.00	-100.00
CBR Class B Rate Riders	\$	-	15,000	\$	-	\$	-	15,000	\$	-	\$	-	
GA Rate Riders	\$	-	15,000	\$	-	\$	-	15,000	\$	-	\$	-	
Low Voltage Service Charge	\$	0.00006	15,000	\$	0.90	\$	0.00006	15,000	\$	0.90	\$	-	0.00
Smart Meter Entity Charge (if applicable)	\$	0.57	1	\$	0.57	\$	0.57	1	\$	0.57	\$	-	0.00
Additional Fixed Rate Riders	s		- 1	¢	ļ	\$		4	e		\$	_	
Additional Volumetric Rate Riders	•	-	15.000	Ф	- 1	ą.	(0.0005)	15.000	\$	(7.50)		(7.50)	
Sub-Total B - Distribution (includes			15,000	Þ		ð	(0.0005)	15,000	ð			, , , , ,	
Sub-Total A)				\$	407.79				\$	416.58	\$	8.79	2.16
RTSR - Network	s	0.0071	15,503	¢	110.07	\$	0.0071	15,507	\$	110.10	Φ.	0.03	0.03
RTSR - Connection and/or Line and											· .		
Transformation Connection	\$	0.0050	15,503	\$	77.51	\$	0.0050	15,507	\$	77.54	\$	0.02	0.03
Sub-Total C - Delivery (including Sub-				\$	595.37				\$	604.21	\$	8.84	1.49
Total B)				-							-		
Wholesale Market Service Charge	\$	0.0034	15,503	\$	52.71	\$	0.0034	15,507	\$	52.72	\$	0.02	0.03
(WMSC)			•		ļ			,					
Rural and Remote Rate Protection	\$	0.0005	15,503	\$	7.75	\$	0.0005	15,507	\$	7.75	\$	0.00	0.03
(RRRP)		0.25		\$	0.05		0.62		s	0.62		0.37	148.00
Standard Supply Service Charge TOU - Off Peak	\$	0.1010	10,077		0.25 1.017.74		0.1010	10.080		1,018.03		0.37	0.03
TOU - Mid Peak	3	0.1010	2.635		379.50		0.1010	2,636	\$	379.61		0.30	0.03
TOU - Mild Peak	\$	0.1440	2,035			\$	0.1440	2,636	÷	580.58		0.11	0.03
100 - Oil Feak	l à	0.2000	2,790	ъ	360.41	Þ	0.2000	2,791	ð	500.50	Ф	0.17	0.03
Tatal Bill on TOU (before Tours)				\$	2,633.73				¢	2,643.54	•	9.81	0.37
Total Bill on TOU (before Taxes) HST		13%		P	342.39		13%		4	2, 643.54 343.66		1.27	0.37
				φ φ					÷.				0.37
Ontario Electricity Rebate		31.8%		\$	(837.53)		31.8%		9	(840.65)		(3.12)	0.07
Total Bill on TOU				\$	2,138.59				\$	2,146.55	Þ	7.96	0.37

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Current Loss Factor
Proposed/Approved Loss Factor 1.0335 1.0338

		current OEB-Approved						Proposed	I	1	lm	pact
	Rate		Volume	Charg	е		Rate	Volume	Charge			
	(\$)			(\$)			(\$)		(\$)		Change	% Change
Monthly Service Charge	\$	200.00		\$	200.00		200.00	1	\$ 200.00		-	0.00%
Distribution Volumetric Rate	\$	4.8760	250	\$ 1,	,219.00	\$	5.5079	250	\$ 1,376.98	\$	157.98	12.96%
Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$ -	\$	-	1
Volumetric Rate Riders	\$	0.1717	250		42.93	\$	(0.2725)	250			(111.05)	-258.71%
Sub-Total A (excluding pass through)					,461.93				\$ 1,508.85		46.93	3.21%
Line Losses on Cost of Power	\$	-	-	\$	-	\$	-	-	\$ -	\$	-	
Total Deferral/Variance Account Rate	e	(0.0650)	250	\$	(16.25)		_	250	s -	\$	16.25	-100.00%
Riders	*	(0.0050)	250	Ψ	(10.23)	Ψ	-	230	•	Ψ	10.25	-100.0070
CBR Class B Rate Riders	\$	-	250		-	\$	-	250		\$	-	1
GA Rate Riders	\$	(0.0015)	127,750		(191.63)	\$	0.0026	127,750	\$ 332.15	\$	523.78	-273.33%
Low Voltage Service Charge	\$	0.02452	250	\$	6.13	\$	0.02434	250	\$ 6.09	\$	(0.04)	-0.73%
Smart Meter Entity Charge (if applicable)	e		- 1	œ.		e		4	e	æ		
	· ·	-	'	Φ	-	ų.	-	'	-	φ	- 1	i
Additional Fixed Rate Riders	\$	-	1	\$	-	\$	-	1	\$ -	\$	-	i
Additional Volumetric Rate Riders			250	\$	-	\$	(0.2874)	250	\$ (71.85) \$	(71.85)	
Sub-Total B - Distribution (includes				\$ 1.	260.18				\$ 1,775,24	\$	515.06	40.87%
Sub-Total A)				•	,						0.0.00	
RTSR - Network	\$	2.9017	250	\$	725.43	\$	2.9017	250	\$ 725.43	\$	-	0.00%
RTSR - Connection and/or Line and	\$	2.0474	250	\$	511.85	s	2.0474	250	\$ 511.85	\$	_	0.00%
Transformation Connection	<u> </u>		200		011.00	•			·	Ť		0.0070
Sub-Total C - Delivery (including Sub-				\$ 2	497.46				\$ 3,012.51	\$	515.06	20.62%
Total B)				_	,				, ,,,,,,,,,	Ť		
Wholesale Market Service Charge	\$	0.0034	132,030	\$	448.90	\$	0.0034	132,068	\$ 449.03	\$	0.13	0.03%
(WMSC)	·		,,,,,	•				,,,,,		1		
Rural and Remote Rate Protection	\$	0.0005	132,030	\$	66.01	\$	0.0005	132,068	\$ 66.03	\$	0.02	0.03%
(RRRP)	,			•	0.05			. ,	· 1	Ļ	0.07	440.000/
Standard Supply Service Charge	\$	0.25	1	\$	0.25		0.62	1	\$ 0.62		0.37	148.00%
Average IESO Wholesale Market Price	<u> </u>	0.1101	132,030	\$ 14	,536.46	\$	0.1101	132,068	\$ 14,540.68	\$	4.22	0.03%
					E 40.00				40.000.00		#10 F2	0
Total Bill on Average IESO Wholesale Market Price					,549.08				\$ 18,068.88		519.79	2.96%
HST		13%		\$ 2	,281.38		13%		\$ 2,348.95	\$	67.57	2.96%
Ontario Electricity Rebate		31.8%		\$			31.8%		\$ -	١.		
Total Bill on Average IESO Wholesale Market Price				\$ 19	,830.46				\$ 20,417.83	\$	587.37	2.96%

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Current Loss Factor
Proposed/Approved Loss Factor

	Current O	EB-Approved	i		Proposed		lm	pact
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 4,193.93	1	\$ 4,193.93	\$ 4,193.93	1	\$ 4,193.93		0.00%
Distribution Volumetric Rate	\$ 4.4562	4000			4000			15.43%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ 0.2427	4000	\$ 970.80	\$ (0.2278)	4000	\$ (911.20)	\$ (1.882.00)	-193.86%
Sub-Total A (excluding pass through)	1	.,,,,	\$ 22,989.53	, (c, c,		\$ 23,857.93		3.78%
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate		4.000	. (007.00)		4.000	•		100.000
Riders	\$ (0.0719)	4,000	\$ (287.60)	\$ -	4,000	\$ -	\$ 287.60	-100.00%
CBR Class B Rate Riders	s -	4.000	\$ -	\$ -	4.000	\$ -	\$ -	
GA Rate Riders	\$ (0.0015)	1,277,500	\$ (1,916.25)	\$ 0.0026	1,277,500	\$ 3,321.50	\$ 5,237.75	-273.33%
Low Voltage Service Charge	\$ 0.02621	4,000	\$ 104.84	\$ 0.02601	4,000	\$ 104.04	\$ (0.80)	-0.76%
Smart Meter Entity Charge (if applicable)			•			•	•	
, , , , ,	-	1	5 -	> -	1	•	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders		4,000	\$ -	\$ (0.3159)	4,000	\$ (1,263.60)	\$ (1,263.60)	
Sub-Total B - Distribution (includes			\$ 20,890.52			\$ 26,019.87	\$ 5,129.35	24.55%
Sub-Total A)			*					
RTSR - Network	\$ 3.0128	4,000	\$ 12,051.20	\$ 3.0128	4,000	\$ 12,051.20	\$ -	0.00%
RTSR - Connection and/or Line and	\$ 2.1882	4,000	\$ 8,752.80	\$ 2.1882	4,000	\$ 8,752.80	\$ -	0.00%
Transformation Connection	\$ 2.1002	4,000	φ 0,732.00	\$ 2.1002	4,000	\$ 0,732.00	φ -	0.0076
Sub-Total C - Delivery (including Sub-			\$ 41.694.52			\$ 46.823.87	\$ 5.129.35	12.30%
Total B)			*,			¥ 10,020.01	V 0,120.00	.2.00 //
Wholesale Market Service Charge	\$ 0.0034	1,320,296	\$ 4,489.01	\$ 0.0034	1,320,680	\$ 4.490.31	\$ 1.30	0.03%
(WMSC)	1	1,020,200	Ψ 1,100.01	• 0.000	1,020,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ψ	0.007
Rural and Remote Rate Protection	\$ 0.0005	1,320,296	\$ 660.15	\$ 0.0005	1,320,680	\$ 660.34	\$ 0.19	0.03%
(RRRP)	,	1,020,200			1,020,000	*		
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.62	1	\$ 0.62		148.00%
Average IESO Wholesale Market Price	\$ 0.1101	1,320,296	\$ 145,364.62	\$ 0.1101	1,320,680	\$ 145,406.81	\$ 42.20	0.03%
Total Bill on Average IESO Wholesale Market Price			\$ 192,208.54			\$ 197,381.95		2.69%
HST	13%		\$ 24,987.11	13%		\$ 25,659.65	\$ 672.54	2.69%
Ontario Electricity Rebate	31.8%		\$ 217.195.65	31.8%		\$ 223.041.61	\$ 5.845.95	2.69%
Total Bill on Average IESO Wholesale Market Price								

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

Hydro Ottawa Limited
EB-2019-0261
Exhibit 8
Tab 10
Schedule 1
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May 5, 2020
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EB-2019-0261

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	32.47
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2022	\$	0.25
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$	-0.22
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kWh	(0.0006)
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052
MONTHLY RATES AND CHARGES - Regulatory Component		
monthier totale and officered trogulatory component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	22.03
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kWh	(0.0006)
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$/kWh	(0.0005)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2022	\$/kWh	0.0006
Distribution Volumetric Rate	\$/kWh	0.0285
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 3 of 62

EB-2019-0261

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

MONTHLY RATES AND CHARGES - Delivery Component		
Service Charge	\$	212.51
Distribution Volumetric Rate	\$/kW	5.9028
Low Voltage Service Rate	\$/kW	0.02465
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kW	(0.1820)
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$/kW	(0.2548)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2022	\$/kW	(0.0176)
Retail Transmission Rate - Network Service Rate	\$/kW	2.9017
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.0474
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 1,500 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	4325.38
Distribution Volumetric Rate	\$/kW	5.5669
Low Voltage Service Rate	\$/kW	0.02635
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kW	(0.1984)
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$/kW	(0.2763)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2022	\$/kW	0.0483
Retail Transmission Rate - Network Service Rate	\$/kW	3.0128
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1882
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	15,624.95
Distribution Volumetric Rate	\$/kW	5.7512
Low Voltage Service Rate	\$/kW	0.02967
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kW	(0.3105)
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$/kW	(0.3470)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2022	\$/kW	0.0762
Retail Transmission Rate - Network Service Rate	\$/kW	3.3399
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.4642
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

	_	
Service Charge (per connection)	\$	6.13
Distribution Volumetric Rate	\$/kWh	0.0288
Low Voltage Service Rate	\$/kWh	0.00006
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kWh	(0.0006)
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$/kWh	(0.0004)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2022	\$/kWh	(0.0002)
Retail Transmission Rate - Network Service Rate	\$/kWh	6.13
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0288
MONTHLY PATEC AND CHARGES. Demiletems Common and		
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such asthe Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component - Approved on an Interim Basis

Service Charge	\$	170.64
General Service 50 TO 1,499 kW customer	\$/kW	2.2774
General Service 1,500 TO 4,999 kW customer	\$/kW	2.0889
General Service Large User kW customer	\$/kW	2.3181

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	4.64
Distribution Volumetric Rate	\$/kW	0.0288
Low Voltage Service Rate	\$/kW	0.00006
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kW	(0.2023)
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$/kW	(0.0016)
Retail Transmission Rate - Network Service Rate	\$/kW	2.1420
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.0050
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	1.02
Distribution Volumetric Rate	\$/kW	7.2257
Low Voltage Service Rate	\$/kW	0.01870
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2022	\$/kW	(0.2134)
Rate Rider for Group 2 Accounts - effective until December 31, 2022	\$/kW	(0.1426)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2022	\$/kW	(0.0268)
Retail Transmission Rate - Network Service Rate	\$/kW	2.1529
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5528
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.64

Effective and Implementation Date January 1, 2022
This schedule supersedes and replaces all previously

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NET-METERING SERVICE CLASSIFICATION

This classification applies to an eligible electricity generation facility as defined in O. Reg. 541/05. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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MICROFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 78.00

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	322.00
ALLOWANCES		
Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.45)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Customer Administration

Arrears Certificate	\$	16.00
Easement Certificate for Unregistered Easements	\$	26.00
Duplicate invoices for previous billing	\$	6.00
Special billing service per hour (min 1 hour, 15 min incremental billing thereafter)	\$	126.00
Credit reference/credit check (plus credit agency costs)	\$	16.00
Unprocessed payment charge (plus bank charges)	\$	26.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	26.00
Disconnect/reconnect at meter - regular hours (new account)	\$	69.00
Disconnect/reconnect at meter - after regular hours (new account)	\$	103.00
Interval meter - field reading	\$	322.00
High bill investigation - if billing is correct	\$	244.00
Non-Payment of Account		
Late payment - per month		
(effective annual rate 19.56% per annum or 0.04896% compounded daily rate	%	1.50
Reconnection at meter - during regular hours	\$	69.00
Reconnection at meter - after regular hours	\$	103.00
Reconnection at pole - during regular hours	\$	257.00
Reconnection at pole - after regular hours	\$	437.00
Other		
Temporary service - install & remove - overhead - no transformer	\$	910.00
Temporary service - install & remove - underground - no transformer	\$	1320.00
Temporary service - install & remove - overhead - with transformer	\$	3243.00
Specific charge for access to the power poles - \$/pole/year		
(with the exception of wireless attachments)	\$	46.53
Dry core transformer distribution charge		Per Attached Table
Energy resource facility administration charge (account set-up charge separately if applicable)	\$	146.00

Effective and Implementation Date January 1, 2022

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	106.65
3 11		
Monthly fixed charge, per retailer	\$	42.66
Monthly variable charge, per customer, per retailer	\$/cust.	1.07
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.64
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	-0.64
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.53
Processing fee, per request, applied to the requesting party	\$	1.07
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.26
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per		
the		
Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.04

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0338
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0152
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0234
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0051

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This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	and	Cost of ansmission d LV per kW	En WI	Cost of ergy and holesale arket per kWh	C	Total lonthly ost of power	Dis	Cost of tribution er kW	Total
Rates			\$	5.3450	\$	0.1329			\$	5.7403	
25 KVA 1 PH, 1.2kV BIL	150	900	\$	0.86	\$	12.08	\$	12.94	\$	0.92	\$ 13.86
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$	1.15	\$	16.10	\$	17.25	\$	1.23	\$ 18.48
50 KVA 1 PH, 1.2kV BIL	250	1600	\$	1.46	\$	20.26	\$	21.72	\$	1.57	\$ 23.29
75 KVA 1 PH, 1.2kV BIL	350	1900	\$	1.95	\$	27.92	\$	29.87	\$	2.09	\$ 31.96
100 KVA 1 PH, 1.2kV BIL	400	2600	\$	2.35	\$	32.47	\$	34.81	\$	2.52	\$ 37.34
112.5 kVA 1 PH, 1.2kV BIL	447	2936	\$	2.63	\$	36.32	\$	38.95	\$	2.83	\$ 41.78
*150 KVA 1 PH, 1.2kV BIL	525	3500	\$	3.11	\$	42.73	\$	45.83	\$	3.34	\$ 49.17
167 KVA 1 PH, 1.2kV BIL	650	4400	\$	3.87	\$	52.99	\$	56.85	\$	4.15	\$ 61.00
175 KVA 1PH, 1.2kV BIL	665	4496	\$	3.95	\$	54.20	\$	58.15	\$	4.25	\$ 62.40
*200 KVA 1 PH, 1.2kV BIL	696	4700	\$	4.14	\$	56.72	\$	60.86	\$	4.44	\$ 65.30
*225 KVA 1 PH, 1.2kV BIL	748	5050	\$	4.44	\$	60.96	\$	65.40	\$	4.77	\$ 70.17
250 KVA 1 PH, 1.2kV BIL	800	5400	\$	4.75	\$	65.19	\$	69.95	\$	5.10	\$ 75.05
333 KVA 1PH 1.2kV BIL	1000	6600	\$	5.90	\$	81.30	\$	87.19	\$	6.33	\$ 93.53
*10 kVA 3 PH, 1.2kV BIL	83	400	\$	0.45	\$ \$	6.56 9.94	\$	7.00	\$ \$	0.48	\$ 7.48 11.36
*15 KVA 3 PH, 1.2kV BIL	125	650		0.69			\$	10.62		0.74	
*30 kVA 3PH, 1.2kV BIL	250	1300	\$	1.37	\$	19.87	\$	21.25	\$	1.48	\$ 22.72
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$	1.72	\$	24.16	\$	25.87	\$	1.84	\$ 27.72
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$	2.29	\$	32.21	\$	34.50	\$	2.46	\$ 36.96
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$	3.38	\$	48.05	\$	51.43	\$	3.63	\$ 55.06
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$	4.09	\$	56.75	\$	60.85	\$	4.40	\$ 65.24
*175 KVA 3PH, 1.2kV BIL	766	4767	\$	4.44	\$	61.90	\$	66.34	\$	4.76	\$ 71.10
*200 KVA 3PH, 1.2kV BIL	833	5033	\$	4.78	\$	67.12	\$	71.90	\$	5.13	\$ 77.03
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$	5.12	\$	72.34	\$	77.46	\$	5.50	\$ 82.97
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$	6.21	\$	88.19	\$	94.40	\$	6.67	\$ 101.07
*450 KVA 3PH, 1.2kV BIL	2075	7275	\$	10.40	\$	160.39	\$	170.79	\$	11.17	\$ 181.96
*500 KVA 3 PH, 95kV BIL	2400	7600	\$	11.80	\$	184.46	\$	196.25	\$	12.67	\$ 208.92
*750 KVA 3 PH, 95kV BIL	3000	12000	\$	15.46	\$	233.81	\$	249.27	\$	16.60	\$ 265.87
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$	17.35	\$	264.20	\$	281.55	\$	18.63	\$ 300.19
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$	23.19	\$	350.71	\$	373.90	\$	24.91	\$ 398.81
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$	27.66	\$	420.07	\$	447.73	\$	29.70	\$ 477.44
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$	33.21	\$	505.29	\$	538.50	\$	35.67	\$ 574.17
*3000 KVA 3PH, 95kV BIL	7700	29000	\$	39.17	\$	597.77	\$	636.94	\$	42.06	\$ 679.01
*3750 KVA 3PH, 95kV BIL	9500	35000	\$	48.10	\$	736.50	\$	784.61	\$	51.66	\$ 836.26
*5000 KVA 3PH, 95kV BIL	11000	39000	\$	55.26	\$	850.82	\$	906.08	\$	59.35	\$ 965.43

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

^{*}For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST

Service Charge	\$	34.04
Smart Metering Entity Charge - held constant	\$	0.57
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.66

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	23.31
Smart Metering Entity Charge - held constant	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0302
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050
MONTHLY RATES AND CHARGES - Regulatory Component		
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
5 , .	\$/kWh \$/kWh	0.0030 0.0004
Wholesale Market Service Rate (WMS) - not including CBR	**	

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	223.60
Distribution Volumetric Rate	\$/kW	6.261
Low Voltage Service Rate	\$/kW	0.02494
Retail Transmission Rate - Network Service Rate	\$/kW	2.9017
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.0474
MONTHLY DATES AND CHARGES. Descriptions Common and		
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.66

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 1,500 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

5	Service Charge	\$	4424.57
	Distribution Volumetric Rate	\$/kW	5.9564
L	Low Voltage Service Rate	\$/kW	0.02666
F	Retail Transmission Rate - Network Service Rate	\$/kW	3.0128
F	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1882
ľ	MONTHLY RATES AND CHARGES - Regulatory Component		
٧	Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
(Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
F	Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	15,905.06
Distribution Volumetric Rate	\$/kW	6.1552
Low Voltage Service Rate	\$/kW	0.03002
Retail Transmission Rate - Network Service Rate	\$/kW	3.3399
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVV	2.4642
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.66

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	6.63
Distribution Volumetric Rate	\$/kWh	0.0311
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.005
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.66

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such asthe Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component - Approved on an Interim Basis

Service Charge	\$	180.57
General Service 50 TO 1,499 kW customer	\$/kW	2.4100
General Service 1,500 TO 4,999 kW customer	\$/kW	2.2105
General Service Large User kW customer	\$/kW	2.4530

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection) Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate	\$ \$/kW \$/kW \$/kW	5.35 25.0873 0.01853 2.142 1.5210
Wholesale Market Service Rate (WMS) - not including CBR Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$/kWh \$	0.0030 0.0004 0.0005 0.66

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	1.08
Distribution Volumetric Rate	\$/kW	7.7183
Low Voltage Service Rate	\$/kW	0.01892
Retail Transmission Rate - Network Service Rate	\$/kW	2.1529
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5528
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.66

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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NET-METERING SERVICE CLASSIFICATION

This classification applies to an eligible electricity generation facility as defined in O. Reg. 541/05. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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MICROFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$80.00

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	330.00
ALLOWANCES		
Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.45)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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448.00

SPECIFIC SERVICE CHARGES

APPLICATION

Customer Administration

Reconnection at pole - after regular hours

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

\$	17.00
\$	27.00
\$	6.00
\$	129.00
\$	17.00
\$	27.00
\$	27.00
\$	71.00
\$	106.00
\$	330.00
\$	250.00
%	1.50
\$	71.00
\$	106.00
\$	263.00
	\$ \$ \$ \$

Other	
Temporary service - install & remove - overhead - no transformer	\$ 933.00
Temporary service - install & remove - underground - no transformer	\$ 1353.00
Temporary service - install & remove - overhead - with transformer	\$ 3324.00
Specific charge for access to the power poles - \$/pole/year	
(with the exception of wireless attachments)	\$ 47.70
Dry core transformer distribution charge	Per Attached Table
Energy resource facility administration charge (account set-up charge separately if applicable)	\$ 150.00

Effective and Implementation Date January 1, 2023

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	109.33
	•	40.70
Monthly fixed charge, per retailer	\$	43.73
Monthly variable charge, per customer, per retailer	\$/cust.	1.10
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.66
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	-0.66
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.54
Processing fee, per request, applied to the requesting party	\$	1.10
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.37
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per		
the		
Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.04

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0338
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0152
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0234
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0051

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Effective and Implementation Date January 1, 2023

DRAFT - TARIFF OF RATES AND CHARGES

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Tran	Cost of nsmission LV per kW	Ene Wł	Cost of ergy and nolesale irket per kWh	c	Total lonthly ost of power	Dis	Cost of tribution er kW	Total
Rates			\$	5.3453	\$	0.1329			\$	6.1242	
25 KVA 1 PH, 1.2kV BIL	150	900	\$	0.86	\$	12.08	\$	12.94	\$	0.98	\$ 13.92
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$	1.15	\$	16.10	\$	17.25	\$	1.31	\$ 18.56
50 KVA 1 PH, 1.2kV BIL	250	1600	\$	1.46	\$	20.26	\$	21.72	\$	1.67	\$ 23.39
75 KVA 1 PH, 1.2kV BIL	350	1900	\$	1.95	\$	27.92	\$	29.87	\$	2.23	\$ 32.10
100 KVA 1 PH, 1.2kV BIL	400	2600	\$	2.35	\$	32.47	\$	34.81	\$	2.69	\$ 37.50
112.5 kVA 1 PH, 1.2kV BIL	447	2936	\$	2.63	\$	36.32	\$	38.95	\$	3.02	\$ 41.97
*150 KVA 1 PH, 1.2kV BIL	525	3500	\$	3.11	\$	42.73	\$	45.83	\$	3.56	\$ 49.39
167 KVA 1 PH, 1.2kV BIL	650	4400	\$	3.87	\$	52.99	\$	56.85	\$	4.43	\$ 61.28
175 KVA 1PH, 1.2kV BIL	665	4496	\$	3.95	\$	54.20	\$	58.15	\$	4.53	\$ 62.68
*200 KVA 1 PH, 1.2kV BIL	696	4700	\$	4.14	\$	56.72	\$	60.86	\$	4.74	\$ 65.59
*225 KVA 1 PH, 1.2kV BIL	748	5050	\$	4.44	\$	60.96	\$	65.40	\$	5.09	\$ 70.49
250 KVA 1 PH, 1.2kV BIL	800	5400	\$	4.75	\$	65.19	\$	69.95	\$	5.45	\$ 75.39
333 KVA 1PH 1.2kV BIL	1000	6600	\$	5.90	\$	81.30	\$	87.20	\$	6.76	\$ 93.95
*10 kVA 3 PH, 1.2kV BIL	83	400	\$	0.45	\$	6.56	\$	7.00	\$	0.51	\$ 7.52
*15 KVA 3 PH, 1.2kV BIL	125	650	\$	0.69	\$	9.94	\$	10.62	\$	0.79	\$ 11.41
*30 kVA 3PH, 1.2kV BIL	250	1300	\$	1.37	\$	19.87	\$	21.25	\$	1.57	\$ 22.82
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$	1.72	\$	24.16	\$	25.87	\$	1.97	\$ 27.84
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$	2.29	\$	32.21	\$	34.50	\$	2.62	\$ 37.12
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$	3.38	\$	48.05	\$	51.43	\$	3.87	\$ 55.30
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$	4.09	\$	56.75	\$	60.85	\$	4.69	\$ 65.54
*175 KVA 3PH, 1.2kV BIL	766	4767	\$	4.44	\$	61.90	\$	66.34	\$	5.08	\$ 71.42
*200 KVA 3PH, 1.2kV BIL	833	5033	\$	4.78	\$	67.12	\$	71.90	\$	5.48	\$ 77.38
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$	5.13	\$	72.34	\$	77.47	\$	5.87	\$ 83.34
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$	6.21	\$	88.19	\$	94.40	\$	7.12	\$ 101.52
*450 KVA 3PH, 1.2kV BIL	2075	7275	\$	10.40	\$	160.39	\$	170.79	\$	11.92	\$ 182.71
*500 KVA 3 PH, 95kV BIL	2400	7600	\$	11.80	\$	184.46	\$	196.26	\$	13.52	\$ 209.77
*750 KVA 3 PH, 95kV BIL	3000	12000	\$	15.46	\$	233.81	\$	249.27	\$	17.71	\$ 266.98
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$	17.35	\$	264.20	\$	281.56	\$	19.88	\$ 301.44
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$	23.19	\$	350.71	\$	373.90	\$	26.57	\$ 400.47
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$	27.66	\$	420.07	\$	447.73	\$	31.69	\$ 479.42
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$	33.21	\$	505.29	\$	538.50	\$	38.05	\$ 576.55
*3000 KVA 3PH, 95kV BIL	7700	29000	\$	39.17	\$	597.77	\$	636.94	\$	44.88	\$ 681.82
*3750 KVA 3PH, 95kV BIL	9500	35000	\$	48.10	\$	736.50	\$	784.61	\$	55.11	\$ 839.72
*5000 KVA 3PH, 95kV BIL	11000	39000	\$	55.26	\$	850.82	\$	906.08	\$	63.31	\$ 969.40

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

^{*}For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	35.03
Smart Metering Entity Charge - held constant	\$	0.57
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052
MONTHLY RATES AND CHARGES - Regulatory Component		
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
	\$/kWh \$/kWh	0.0030 0.0004
Wholesale Market Service Rate (WMS) - not including CBR	**	

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 34 of 62

EB-2019-0261

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	24.16
Smart Metering Entity Charge - held constant	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0313
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.68

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 35 of 62

EB-2019-0261

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	223.60
Distribution Volumetric Rate	\$/kW	6.5058
Low Voltage Service Rate	\$/kW	0.02518
Retail Transmission Rate - Network Service Rate	\$/kW	2.9017
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.0474
MONTHLY RATES AND CHARGES - Regulatory Component		
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
J , .	\$/kWh \$/kWh	0.0030 0.0004
Wholesale Market Service Rate (WMS) - not including CBR	*:	

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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EB-2019-0261

GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 1,500 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate	\$ \$/kW \$/kW \$/kW	4442.54 6.2424 0.02691 3.0128 2.1882
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$/kWh \$	0.0030 0.0004 0.0005 0.68

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate	\$ \$/kW \$/kW \$/kW	15,905.06 6.4494 0.0303 3.3399 2.4642
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$/kWh \$	0.0030 0.0004 0.0005 0.68

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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7 04

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

APPLICATION

Service Charge (per connection)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Corvice Charge (per connection)	Ψ	7.04
Distribution Volumetric Rate	\$/kWh	0.033
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.68
Claridata Supply Service / laminolitative Strange (in applicable)	Ψ	0.00

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such asthe Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component - Approved on an Interim Basis

Service Charge	\$	187.49
General Service 50 TO 1,499 kW customer	\$/kW	2.5025
General Service 1,500 TO 4,999 kW customer	\$/kW	2.2953
General Service Large User kW customer	\$/kW	2.5471

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection) Distribution Volumetric Rate Low Voltage Service Rate	\$ \$/kW \$/kW	6.01 28.2183 0.01871
Retail Transmission Rate - Network Service Rate	\$/kW	2.1420
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5210
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
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Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	1.13
Distribution Volumetric Rate	\$/kW	7.9806
Low Voltage Service Rate	\$/kW	0.01910
Retail Transmission Rate - Network Service Rate	\$/kW	2.1529
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5528
MONTHLY RATES AND CHARGES - Regulatory Component		
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
	\$/kWh \$/kWh	0.0030 0.0004
Wholesale Market Service Rate (WMS) - not including CBR	**	

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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NET-METERING SERVICE CLASSIFICATION

This classification applies to an eligible electricity generation facility as defined in O. Reg. 541/05. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

MICROFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 15.00

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 82.00

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	338.00
ALLOWANCES		
Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.45)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

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SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Customer Administration		
Arrears Certificate	\$	17.00
Easement Certificate for Unregistered Easements	\$	27.00
Duplicate invoices for previous billing	\$	6.00
Special billing service per hour (min 1 hour, 15 min incremental billing thereafter)	\$	132.00
Credit reference/credit check (plus credit agency costs)	\$	17.00
Unprocessed payment charge (plus bank charges)	\$	27.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	27.00
Disconnect/reconnect at meter - regular hours (new account)	\$	72.00
Disconnect/reconnect at meter - after regular hours (new account)	\$	108.00
Interval meter - field reading	\$	339.00
High bill investigation - if billing is correct	\$	257.00
Non-Payment of Account		
Late payment - per month		
(effective annual rate 19.56% per annum or 0.04896% compounded daily rate	%	1.50
Reconnection at meter - during regular hours	\$	72.00
Reconnection at meter - after regular hours	\$	108.00
Reconnection at pole - during regular hours	\$	270.00
Reconnection at pole - after regular hours	\$	459.00
Other		
Temporary service - install & remove - overhead - no transformer	\$	956.00
Temporary service - install & remove - underground - no transformer	\$	1387.00
Temporary service - install & remove - overhead - with transformer	\$	3407.00
Specific charge for access to the power poles - \$/pole/year		
(with the exception of wireless attachments)	\$	48.90
Dry core transformer distribution charge		Per Attached Table
Energy resource facility administration charge (account set-up charge separately if applicable)	\$	153.00

Effective and Implementation Date January 1, 2024

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	112.07
	_	
Monthly fixed charge, per retailer	\$	44.83
Monthly variable charge, per customer, per retailer	\$/cust.	1.13
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.68
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	-0.68
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.55
Processing fee, per request, applied to the requesting party	\$	1.13
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.48
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per the		
Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.04

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0338
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0152
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0234
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0051

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This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

DRAFT - TARIFF OF RATES AND CHARGES

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Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)		Transmission and LV per kW		Transmission and LV per kW		Cost of Energy and Wholesale Market per kWh		Total Monthly cost of power		Cost of tribution er kW	Total
Rates			\$	5.3455	\$	0.1329			\$	6.3992			
25 KVA 1 PH, 1.2kV BIL	150	900	\$	0.86	\$	12.08	\$	12.94	\$	1.03	\$ 13.97		
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$	1.15	\$	16.10	\$	17.25	\$	1.37	\$ 18.62		
50 KVA 1 PH, 1.2kV BIL	250	1600	\$	1.46	\$	20.26	\$	21.72	\$	1.75	\$ 23.47		
75 KVA 1 PH, 1.2kV BIL	350	1900	\$	1.95	\$	27.92	\$	29.87	\$	2.33	\$ 32.20		
100 KVA 1 PH, 1.2kV BIL	400	2600	\$	2.35	\$	32.47	\$	34.82	\$	2.81	\$ 37.63		
112.5 kVA 1 PH, 1.2kV BIL	447	2936	\$	2.63	\$	36.32	\$	38.95	\$	3.15	\$ 42.11		
*150 KVA 1 PH, 1.2kV BIL	525	3500	\$	3.11	\$	42.73	\$	45.83	\$	3.72	\$ 49.55		
167 KVA 1 PH, 1.2kV BIL	650	4400	\$	3.87	\$	52.99	\$	56.85	\$	4.63	\$ 61.48		
175 KVA 1PH, 1.2kV BIL	665	4496	\$	3.95	\$	54.20	\$	58.15	\$	4.73	\$ 62.89		
*200 KVA 1 PH, 1.2kV BIL	696	4700	\$	4.14	\$	56.72	\$	60.86	\$	4.95	\$ 65.81		
*225 KVA 1 PH, 1.2kV BIL	748	5050	\$	4.44	\$	60.96	\$	65.40	\$	5.32	\$ 70.72		
250 KVA 1 PH, 1.2kV BIL	800	5400	\$	4.75	\$	65.19	\$	69.95	\$	5.69	\$ 75.64		
333 KVA 1PH 1.2kV BIL	1000	6600	\$	5.90	\$	81.30	\$	87.20	\$	7.06	\$ 94.26		
*10 kVA 3 PH, 1.2kV BIL	83	400	\$	0.45	\$	6.56	\$	7.00	\$	0.54	\$ 7.54		
*15 KVA 3 PH, 1.2kV BIL	125	650	\$	0.69	\$	9.94	\$	10.62	\$	0.82	\$ 11.45		
*30 kVA 3PH, 1.2kV BIL	250	1300	\$	1.37	\$	19.87	\$	21.25	\$	1.65	\$ 22.89		
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$	1.72	\$	24.16	\$	25.87	\$	2.06	\$ 27.93		
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$	2.29	\$	32.21	\$	34.50	\$	2.74	\$ 37.24		
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$	3.38	\$	48.05	\$	51.43	\$	4.04	\$ 55.48		
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$	4.09	\$	56.75	\$	60.85	\$	4.90	\$ 65.75		
*175 KVA 3PH, 1.2kV BIL	766	4767	\$	4.44	\$	61.90	\$	66.34	\$	5.31	\$ 71.65		
*200 KVA 3PH, 1.2kV BIL	833	5033	\$	4.78	\$	67.12	\$	71.90	\$	5.72	\$ 77.62		
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$	5.13	\$	72.34	\$	77.47	\$	6.14	\$ 83.60		
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$	6.21	\$	88.19	\$	94.40	\$	7.44	\$ 101.84		
*450 KVA 3PH, 1.2kV BIL	2075	7275	\$	10.40	\$	160.39	\$	170.79	\$	12.45	\$ 183.24		
*500 KVA 3 PH, 95kV BIL	2400	7600	\$	11.80	\$	184.46	\$	196.26	\$	14.12	\$ 210.38		
*750 KVA 3 PH, 95kV BIL	3000	12000	\$	15.46	\$	233.81	\$	249.27	\$	18.51	\$ 267.78		
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$	17.35	\$	264.20	\$	281.56	\$	20.77	\$ 302.33		
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$	23.19	\$	350.71	\$	373.90	\$	27.77	\$ 401.67		
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$	27.66	\$	420.07	\$	447.73	\$	33.11	\$ 480.85		
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$	33.22	\$	505.29	\$	538.50	\$	39.76	\$ 578.26		
*3000 KVA 3PH, 95kV BIL	7700	29000	\$	39.17	\$	597.77	\$	636.94	\$	46.89	\$ 683.84		
*3750 KVA 3PH, 95kV BIL	9500	35000	\$	48.11	\$	736.50	\$	784.61	\$	57.59	\$ 842.20		
*5000 KVA 3PH, 95kV BIL	11000	39000	\$	55.26	\$	850.82	\$	906.09	\$	66.16	\$ 972.24		

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

^{*}For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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EB-2019-0261

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	35.65
Smart Metering Entity Charge - held constant	\$	0.57
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.70

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 49 of 62

EB-2019-0261

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Global Adjustment and the HST.

Service Charge	\$	24.82
Smart Metering Entity Charge - held constant	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0321
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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EB-2019-0261

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	235.78
Distribution Volumetric Rate	\$/kW	6.6955
Low Voltage Service Rate	\$/kW	0.02552
Retail Transmission Rate - Network Service Rate	\$/kW	2.9017
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.0474
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Capacity Based Recovery (OBR) Applicable for Class B Castomers		
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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EB-2019-0261

GENERAL SERVICE 1.500 TO 4.999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 1,500 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	4442.54
Distribution Volumetric Rate	\$/kW	6.4281
Low Voltage Service Rate	\$/kW	0.02728
Retail Transmission Rate - Network Service Rate	\$/kW	3.0128
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1882
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.70

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

Service Charge	\$	15,905.06
Distribution Volumetric Rate	\$/kW	6.6396
Low Voltage Service Rate	\$/kW	0.03072
Retail Transmission Rate - Network Service Rate	\$/kW	3.3399
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.4642
MONTHLY RATES AND CHARGES - Regulatory Component		
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
5 7 .	\$/kWh \$/kWh	0.0030 0.0004
Wholesale Market Service Rate (WMS) - not including CBR	**	

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 53 of 62

EB-2019-0261

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection) Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate	\$ \$/kWh \$/kWh	7.39 0.0347 0.00006 0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate MONTHLY RATES AND CHARGES - Regulatory Component Whateacle Market Carrier Rate (WMC) and including CRR	\$/kWh	0.0050
Wholesale Market Service Rate (WMS) - not including CBR Capacity Based Recovery (CBR) - Applicable for Class B Customers Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$/kWh \$	0.0030 0.0004 0.0005 0.70

Effective and Implementation Date January 1, 2025
This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 54 of 62

EB-2019-0261

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such asthe Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component - Approved on an Interim Basis

Service Charge \$	192.45
General Service 50 TO 1,499 kW customer \$/k	kW 2.5688
General Service 1,500 TO 4,999 kW customer \$/k	kW 2.3561
General Service Large User kW customer \$/k	kW 2.6146

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

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EB-2019-0261

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	6.64
Distribution Volumetric Rate	\$/kW	31.1964
Low Voltage Service Rate	\$/kW	0.01896
Retail Transmission Rate - Network Service Rate	\$/kW	2.1420
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5210
MONTHLY RATES AND CHARGES - Regulatory Component		
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
5 .	\$/kWh \$/kWh	0.0030 0.0004
Wholesale Market Service Rate (WMS) - not including CBR	**	

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 56 of 62

EB-2019-0261

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Service Charge (per connection)	\$	1.16
Distribution Volumetric Rate	\$/kW	8.2236
Low Voltage Service Rate	\$/kW	0.01936
Retail Transmission Rate - Network Service Rate	\$/kW	2.1529
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5528
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)		

Effective and Implementation Date January 1, 2025
This schedule supersedes and replaces all previously approved schedules of Rates. Charges and Loss Factors

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B UPDATED May 5, 2020 Page 57 of 62

EB-2019-0261

NET-METERING SERVICE CLASSIFICATION

This classification applies to an eligible electricity generation facility as defined in O. Reg. 541/05. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 16.00

MICROFIT CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 16.00

Effective and Implementation Date January 1, 2025

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 10 Schedule 1 Attachment B **UPDATED** May 5, 2020 Page 58 of 62

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FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessements or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 84.00



Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 11 Schedule 1 UPDATED May 5, 2020 Page 1 of 12

UPDATED REVENUE PER RATE CLASS UNDER CURRENT AND PROPOSED RATES

3 1. INTRODUCTION

In accordance with section 2.8.11 of the OEB's *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019, this Schedule outlines Hydro Ottawa's revenue per rate class under current and proposed rates. Please see Tables 1 through 5 for detailed calculations of revenue per rate class under 2020 rates, and a reconciliation of rate class revenue at 2020 rates and other revenue to total revenue requirement. The revenue deficiency/sufficiency was determined by calculating what the revenue would have been using 2020 rates, monthly Service Charge ("SC") and Volumetric Rate ("Vol. R"), and the forecasted 2021-2025 load and customer/connection numbers. This produces the amount of revenue Hydro Ottawa would collect at 2020 rates with an updated load forecast. The estimated Transformer Ownership Credit ("TOC") is used to adjust the revenue at 2020 rates to produce Hydro Ottawa's revenue requirement after other revenues. Hydro Ottawa compiled the analysis in this manner as the 2020 rates offer a stable base for comparisons with each subsequent year.

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Detailed calculations of revenue requirement at proposed rates can be found within Sheet 13:
Rate Design in the Revenue Requirement Workforms which accompany UPDATED Exhibit
6-1-1: Calculation of Revenue Deficiency or Sufficiency. More specifically, these workforms are
included in the following Attachments:

- **UPDATED** Attachment 6-1-1(A): OEB Workform 2021 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(B): OEB Workform 2022 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(C): OEB Workform 2023 Revenue Requirement

 Workform
- UPDATED Attachment 6-1-1(D): OEB Workform 2024 Revenue Requirement
 Workform
- UPDATED Attachment 6-1-1(E): OEB Workform 2025 Revenue Requirement Workform



Table 1 – AS ORIGINALLY SUBMITTED – Revenue per Rate Class and Reconciliation to 2021 Revenue Requirement¹

	Average #	2021 Cons	2021 Consumption		2020 Rates		тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	2020 Rates (\$'000s)	(\$'000s)	Difference (\$'000s)
Residential	316,346	2,253,081	n/a	\$27.79	n/a	\$105,495	n/a	\$105,495
GS< 50kW	25,391	700,163	n/a	\$19.32	\$0.0250	\$23,391	n/a	\$23,391
GS > 50 to 1,499 kW	3,120	2,819,476	6,816,104	\$200.00	\$4.8760	\$40,723	\$ 343	\$40,380
GS > 1,500 to 4,999 kW	68	682,977	1,518,349	\$4,193.93	\$4.4562	\$10,188	\$ 397	\$9,791
Large Use	11	574,292	1,052,899	\$15,231.32	\$4.2422	\$6,477	\$ 316	\$6,161
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	13,602	n/a	\$5.09	\$0.0242	\$532	n/a	\$532
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	62,806	22,107	61,588	\$0.91	\$6.3414	\$1,076	n/a	\$1,076
Total Revenue at 2020 Rate	s					\$187,905	\$1,056	\$186,849

 Other Revenue
 \$10,977

 Total Revenue
 \$197,827

 2021 Revenue Requirement
 \$214,886

 2021 Revenue Deficiency
 \$17,060

 $^{^{\}rm 3}$ $^{\rm 1}$ Totals may not sum due to rounding.



1 Table 1 – UPDATED FOR 2019 ACTUALS – Revenue per Rate Class and Reconciliation to 2021 Revenue Requirement²

	Average #	2021 Cons	2021 Consumption		2020 Rates		тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	2020 Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	316,346	2,252,937	n/a	\$27.79	n/a	\$105,495	n/a	\$105,495
GS< 50kW	25,391	699,871	n/a	\$19.32	\$0.0250	\$23,383	n/a	\$23,383
GS > 50 to 1,499 kW	3,120	2,817,707	6,815,129	\$200.00	\$4.8760	\$40,719	\$ 343	\$40,375
GS > 1,500 to 4,999 kW	68	682,919	1,517,165	\$4,193.93	\$4.4562	\$10,183	\$ 397	\$9,786
Large Use	11	574,292	1,052,901	\$15,231.32	\$4.2422	\$6,477	\$ 316	\$6,161
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	13,602	n/a	\$5.09	\$0.0242	\$532	n/a	\$532
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	62,806	22,107	61,590	\$0.91	\$6.3414	\$1,076	n/a	\$1,076
Total Revenue at 2020 Rate	s					\$187,888	\$1,056	\$186,832

 Other Revenue
 \$11,013

 Total Revenue
 \$197,846

 2021 Revenue Requirement
 \$216,638

 2021 Revenue Deficiency
 \$18,792

³ Totals may not sum due to rounding.



Table 2 – AS ORIGINALLY SUBMITTED – Revenue per Rate Class and Reconciliation to 2022 Revenue Requirement³

	Average #	2022 Cons	2022 Consumption		Rates	Revenues at 2020 TOC	TOC	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	Difference (\$'000s)
Residential	319,386	2,273,964	n/a	\$27.79	n/a	\$106,509	n/a	\$106,509
GS< 50kW	25,554	699,456	n/a	\$19.32	\$0.0250	\$23,411	n/a	\$23,411
GS > 50 to 1,499 kW	3,085	2,825,111	6,818,165	\$200.00	\$4.8760	\$40,650	\$343	\$40,307
GS > 1,500 to 4,999 kW	68	682,362	1,517,223	\$4,193.93	\$4.4562	\$10,183	\$397	\$9,786
Large Use	11	572,889	1,050,767	\$15,231.32	\$4.2422	\$6,468	\$316	\$6,152
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	13,130	n/a	\$5.09	\$0.0242	\$521	n/a	\$521
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	63,725	21,225	58,863	\$0.91	\$6.3414	\$1,069	n/a	\$1,069
Total Revenue at 2020 Rate	s					\$ 188,833	\$1,056	\$187,777

 Other Revenue
 \$11,013

 Total Revenue
 \$198,790

 2022 Revenue Requirement
 \$231,939

 2022 Revenue Deficiency
 \$33,149

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

² Totals may not sum due to rounding.



1 Table 2 – UPDATED FOR 2019 ACTUALS – Revenue per Rate Class and Reconciliation to 2022 Revenue Requirement⁴

	Average #	2022 Cons	sumption	2020 Rates		Revenues at 2020	тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	319,386	2,273,821	n/a	\$27.79	n/a	\$106,509	n/a	\$106,509
GS< 50kW	25,554	699,134	n/a	\$19.32	\$0.0250	\$23,403	n/a	\$23,403
GS > 50 to 1,499 kW	3,085	2,823,141	6,817,445	\$200.00	\$4.8760	\$40,646	\$ 343	\$40,303
GS > 1,500 to 4,999 kW	68	682,301	1,516,028	\$4,193.93	\$4.4562	\$10,178	\$ 397	\$9,781
Large Use	11	572,889	1,050,767	\$15,231.32	\$4.2422	\$6,468	\$ 316	\$6,152
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	13,130	n/a	\$5.09	\$0.0242	\$521	n/a	\$521
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$ 4	n/a	\$4
Street Lighting	63,725	21,225	58,864	\$0.91	\$6.3414	\$1,069	n/a	\$1,069
Total Revenue at 2020 Rate	s					\$ 188,816	\$1,056	\$187,761

 Other Revenue
 \$10,971

 Total Revenue
 \$198,732

 2022 Revenue Requirement
 \$231,113

 2022 Revenue Deficiency
 \$32,381

² ⁴ Totals may not sum due to rounding.



Table 3 – AS ORIGINALLY SUBMITTED – Revenue per Rate Class and Reconciliation to 2023 Revenue Requirement⁵

	Average #	2023 Cons	sumption	2020	Rates	Revenues at 2020	тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	322,306	2,299,513	n/a	\$27.79	n/a	\$107,483	n/a	\$107,483
GS< 50kW	25,704	697,989	n/a	\$19.32	\$0.0250	\$23,409	n/a	\$23,409
GS > 50 to 1,499 kW	3,049	2,831,390	6,821,528	\$200.00	\$4.8760	\$40,580	\$343	\$40,237
GS > 1,500 to 4,999 kW	68	682,571	1,517,607	\$4,193.93	\$4.4562	\$10,185	\$397	\$9,788
Large Use	11	572,033	1,049,467	\$15,231.32	\$4.2422	\$6,463	\$316	\$6,147
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	12,663	n/a	\$5.09	\$0.0242	\$509	n/a	\$509
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	64,645 20,413 56,618		56,618	\$0.91	\$6.3414	\$ 1,065	n/a	\$1,065
Total Revenue at 2020 Rates						\$ 189,716	\$1,056	\$188,659

Other Revenue \$11,667 Total Revenue \$200,327 \$244,045 2023 Revenue Requirement \$43,719 2023 Revenue Deficiency

² Totals may not sum due to rounding.



1 Table 3 – UPDATED FOR 2019 ACTUALS – Revenue per Rate Class and Reconciliation to 2023 Revenue Requirement⁶

	Average #	2023 Cons	sumption	2020	Rates	Revenues at 2020	тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	322,306	2,299,366	n/a	\$27.79	n/a	\$107,483	n/a	\$107,483
GS< 50kW	25,704	697,636	n/a	\$19.32	\$0.0250	\$23,400	n/a	\$23,400
GS > 50 to 1,499 kW	3,049	2,829,220	6,821,057	\$200.00	\$4.8760	\$40,578	\$343	\$40,234
GS > 1,500 to 4,999 kW	68	682,505	1,516,400	\$4,193.93	\$4.4562	\$10,180	\$397	\$9,783
Large Use	11	572,033	1,049,467	\$15,231.32	\$4.2422	\$6,463	\$316	\$6,147
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	12,663	n/a	\$5.09	\$0.0242	\$509	n/a	\$509
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	64,645	20,413	56,618	\$0.91	\$6.3414	\$1,065	n/a	\$1,065
Total Revenue at 2020 Rates						\$ 189,699	\$1,056	\$188,643

Other Revenue \$11,667 Total Revenue \$200,310 \$244,558 2023 Revenue Requirement \$44,248 2023 Revenue Deficiency

² ⁶ Totals may not sum due to rounding.



Table 4 – AS ORIGINALLY SUBMITTED – Revenue per Rate Class and Reconciliation to 2024 Revenue Requirement⁷

	Average #	2024 Cons	sumption	2020	Rates	Revenues at 2020	тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	325,150	2,333,345	n/a	\$27.79	\$ -	\$108,431	n/a	\$108,431
GS< 50kW	25,846	698,161	n/a	\$19.32	\$0.0250	\$23,446	n/a	\$23,446
GS > 50 to 1,499 kW	3,013	2,844,419	6,838,752	\$200.00	\$4.8760	\$40,576	\$344	\$40,232
GS > 1,500 to 4,999 kW	68	684,488	1,521,105	\$4,193.93	\$4.4562	\$10,201	\$398	\$9,803
Large Use	11	572,834	1,050,683	\$15,231.32	\$4.2422	\$6,468	\$317	\$6,151
Standby Power	2	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	12,195	n/a	\$5.09	\$0.0242	\$498	n/a	\$498
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	9 65,564 19,603 54,373		\$0.91	\$6.3414	\$1,061	n/a	\$ 1,061	
Total Revenue at 2020 Rates						\$ 190,703	\$1,059	\$189,644

 Other Revenue
 \$12,151

 Total Revenue
 \$201,796

 2024 Revenue Requirement
 \$253,405

 2024 Revenue Deficiency
 \$51,609

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

 $^{^{2}}$ Totals may not sum due to rounding.



Table 4 – AS REVISED – Revenue per Rate Class and Reconciliation to 2024 Revenue Requirement⁸

	Average #	2024 Cons	sumption	2020	Rates	Revenues at 2020	тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	325,150	2,333,345	n/a	\$27.79	\$ -	\$108,431	n/a	\$108,431
GS< 50kW	25,846	698,161	n/a	\$19.32	\$0.0250	\$23,446	n/a	\$23,446
GS > 50 to 1,499 kW	3,013	2,844,419	6,838,752	\$200.00	\$4.8760	\$40,576	\$344	\$40,232
GS > 1,500 to 4,999 kW	68	684,488	1,521,105	\$4,193.93	\$4.4562	\$10,201	\$398	\$9,803
Large Use	11	572,834	1,050,683	\$15,231.32	\$4.2422	\$6,468	\$317	\$6,151
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	12,195	n/a	\$5.09	\$0.0242	\$498	n/a	\$498
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	65,564	19,603	54,373	\$0.91	\$6.3414	\$1,061	n/a	\$ 1,061
Total Revenue at 2020 Rates						\$ 190,703	\$1,059	\$189,644

 Other Revenue
 \$12,151

 Total Revenue
 \$201,796

 2024 Revenue Requirement
 \$253,405

 2024 Revenue Deficiency
 \$51,609

² Totals may not sum due to rounding.



1 Table 4 – UPDATED FOR 2019 ACTUALS – Revenue per Rate Class and Reconciliation to 2024 Revenue Requirement⁹

	Average #	2024 Cons	sumption	2020	Rates	Revenues at 2020	тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	325,150	2,333,198	n/a	\$27.79	\$ -	\$108,431	n/a	\$108,431
GS< 50kW	25,846	697,774	n/a	\$19.32	\$0.0250	\$23,437	n/a	\$23,437
GS > 50 to 1,499 kW	3,013	2,841,988	6,838,407	\$200.00	\$4.8760	\$40,574	\$344	\$40,230
GS > 1,500 to 4,999 kW	68	684,409	1,519,896	\$4,193.93	\$4.4562	\$10,195	\$398	\$9,797
Large Use	11	572,834	1,050,683	\$15,231.32	\$4.2422	\$6,468	\$316	\$6,151
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	12,195	n/a	\$5.09	\$0.0242	\$498	n/a	\$498
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	65,564	19,603	54,374	\$0.91	\$6.3414	\$1,061	n/a	\$1,061
Total Revenue at 2020 Rates						\$ 190,686	\$1,059	\$189,628

Other Revenue \$12,151 Total Revenue \$201,779 \$253,969 2024 Revenue Requirement \$52,190 2024 Revenue Deficiency

² Totals may not sum due to rounding.



1 Table 5 – AS ORIGINALLY SUBMITTED – Revenue per Rate Class and Reconciliation to 2025 Revenue Requirement¹⁰

	Average #	2025 Cons	sumption	2020	Rates	Revenues at 2020	тос	Difference
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)
Residential	327,975	2,353,299	n/a	\$ 27.79	n/a	\$109,373	n/a	\$109,373
GS< 50kW	25,987	696,245	n/a	\$ 19.32	\$0.0250	\$23,431	n/a	\$23,431
GS > 50 to 1,499 kW	2,976	2,845,454	6,831,218	\$ 200.00	\$4.8760	\$40,451	\$288	\$40,163
GS > 1,500 to 4,999 kW	68	683,614	1,519,514	\$ 4,193.93	\$4.4562	\$10,194	\$333	\$9,860
Large Use	11	570,390	1,046,964	\$ 15,231.32	\$4.2422	\$6,452	\$265	\$6,187
Standby Power	3	n/a	7,440	\$ 145.13	1.7766	\$18	n/a	\$18
Unmetered Scattered Load	3,321	11,728	n/a	\$ 5.09	\$0.0242	\$487	n/a	\$487
Sentinel Lighting	55	47	132	\$ 3.17	\$14.8502	\$4	n/a	\$4
Street Lighting	66,484	18,854	52,530	\$ 0.91	\$6.3414	\$1,059	n/a	\$1,059
Total Revenue at 2020 Rates						\$ 191,468	\$886	\$190,582

 Other Revenue
 \$12,457

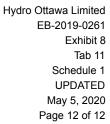
 Total Revenue
 \$203,039

 2025 Revenue Requirement
 \$260,053

 2025 Revenue Deficiency
 \$57,014

2021 Hydro Ottawa Limited Electricity Distribution Rate Application

² Totals may not sum due to rounding.





1 Table 5 – UPDATED FOR 2019 ACTUALS - Revenue per Rate Class and Reconciliation to 2025 Revenue Requirement¹¹

	Average #	2025 Cons	sumption	2020	Rates	Revenues at 2020	тос	Difference	
Rate Class	Customers / Connections	MWh	KW	Monthly SC	Vol. R (kWh/KW)	Rates (\$'000s)	(\$'000s)	(\$'000s)	
Residential	327,975	2,353,149	n/a	\$27.79	n/a	\$109,373	n/a	\$109,373	
GS< 50kW	25,987	695,837	n/a	\$19.32	\$0.0250	\$23,421	n/a	\$23,421	
GS > 50 to 1,499 kW	2,976	2,842,881	6,831,256	\$200.00	\$4.8760	\$40,451	\$288	\$40,163	
GS > 1,500 to 4,999 kW	68	683,532	1,518,291	\$4,193.93	\$4.4562	\$10,188	\$333	\$9,855	
Large Use	11	570,390	1,046,964	\$15,231.32	\$4.2422	\$6,452	\$265	\$6,187	
Standby Power	3	n/a	7,440	\$145.13	1.7766	\$18	n/a	\$18	
Unmetered Scattered Load	3,321	11,728	n/a	\$5.09	\$0.0242	\$487	n/a	\$487	
Sentinel Lighting	55	47	132	\$3.17	\$14.8502	\$4	n/a	\$4	
Street Lighting	66,484	18,854 52,530		\$0.91	\$6.3414	\$ 1,059	n/a	\$1,059	
Total Revenue at 2020 Rate	\$ 191,453	\$886	\$190,567						

 Other Revenue
 \$12,457

 Total Revenue
 \$203,023

 2025 Revenue Requirement
 \$260,674

 2025 Revenue Deficiency
 \$57,651

 $^{^{3}}$ 11 Totals may not sum due to rounding.



Hydro Ottawa Limited
EB-2019-0261
Exhibit 8
Tab 12
Schedule 1
UPDATED
May 5, 2020
Page 1 of 6

UPDATED BILL IMPACT INFORMATION

2

1

3 1. INTRODUCTION

- 4 This Schedule describes bill impacts for typical customers in each rate class arising from Hydro
- 5 Ottawa's revenue requirement adjusted for cost allocation.

6

- 7 Details of the impacts of the proposed rates are provided in **UPDATED** Attachment 8-12-1(A):
- 8 2021-2025 Bill Impacts Model. UPDATED Attachment 8-12-1(A) illustrates individual and
- 9 combined impacts of the distribution component of the rate transmission and network charges,
- 10 as well as the total bill impact, as based upon the typical consumption level used for each rate
- 11 class.

12

- 13 Of note, in the 2020 Rate Order found in UPDATED Attachment 8-12-1(A), the MicroFIT and
- 14 Micro-Net-Metering classes have been separated in order to provide clarity around the
- 15 application of the rate. "Micro-Net-Metering" became "Net-Metering" and its own separate class.
- 16 This change in the wording is intended to allow Hydro Ottawa to charge the Net Metering Charge
- 17 to all sizes of net metered generation, rather than only those that have nameplate value of 10 kW
- 18 and below.

19

20 2. SUMMARY OF RATE IMPACTS

- 21 The updated version of Table 1 below provides a summary of bill impacts per rate class including
- the total change in monthly bill, as expressed in both monetary and percentage terms. The
- 23 summary is inclusive of variance accounts. Additional bill impacts are provided in **UPDATED**
- 24 Attachment 8-12-1(A): 2021-2025 Bill Impacts Model which are not shown in the updated version
- 25 of Table 1.



1

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 UPDATED May 5, 2020 Page 2 of 6

Table 1 – AS ORIGINALLY SUBMITTED – Summary of Rate Impacts

Dota Olasa		Approved			Proposed		
Rate Class		2020	2021	2022	2023	2024	2025
	Distribution Charge	\$28.64	\$29.95	\$32.13	\$33.97	\$34.95	\$35.56
Residential	Change in Distribution Charge		\$1.31	\$2.18	\$1.84	\$0.98	\$0.61
(750 kWh)	% Distribution Increase		4.57%	7.28%	5.73%	2.88%	1.75%
	% Increase of Total Bill		1.32%	1.54%	1.28%	0.68%	0.43%
	Distribution Charge	\$28.64	\$29.95	\$32.13	\$33.97	\$34.95	\$35.56
Residential	Change in Distribution Charge		\$1.31	\$2.18	\$1.84	\$0.98	\$0.61
(232 kWh)	% Distribution Increase		4.57%	7.28%	5.73%	2.88%	1.75%
	% Increase of Total Bill		2.71%	3.35%	2.74%	1.43%	0.89%
General	Distribution Charge	\$71.32	\$73.06	\$78.13	\$83.28	\$86.33	\$88.58
Service	Change in Distribution Charge		\$1.74	\$5.07	\$5.15	\$3.05	\$2.25
<50 kW	% Distribution Increase		2.44%	6.94%	6.59%	3.66%	2.61%
(2000 kWh)	% Increase of Total Bill		0.65%	1.37%	1.37%	0.81%	0.59%
General	Distribution Charge	\$1,461.93	\$1,537.98	\$1,669.42	\$1,785.17	\$1,853.01	\$1,905.37
Service	Change in Distribution Charge		\$76.05	\$131.44	\$115.76	\$67.84	\$52.36
50 kW - 1,499 kW	% Distribution Increase		5.20%	8.55%	6.93%	3.80%	2.83%
(250 kW)	% Increase of Total Bill		1.59%	0.74%	0.65%	0.38%	0.29%
General	Distribution Charge	\$15,941.18	\$16,614.68	\$18,015.99	\$19,263.84	\$19,992.90	\$20,452.40
Service	Change in Distribution Charge		\$673.50	\$1,401.31	\$1,247.85	\$729.06	\$459.50
1,500 kW - 4,999 kW	% Distribution Increase		4.22%	8.43%	6.93%	3.78%	2.30%
(2,500 kW)	% Increase of Total Bill		1.53%	0.78%	0.69%	0.40%	0.25%
	Distribution Charge	\$48,420.32	\$53,922.32	\$58,287.22	\$62,092.67	\$64,292.42	\$65,709.17
Large Use	Change in Distribution Charge		\$5,502.00	\$4,364.90	\$3,805.45	\$2,199.75	\$1,416.75
(7,500 kW)	% Distribution Increase		11.36%	8.09%	6.53%	3.54%	2.20%
	% Increase of Total Bill		2.16%	0.79%	0.68%	0.39%	0.25%
	Distribution Charge	\$9.53	\$10.91	\$13.14	\$15.31	\$17.20	\$18.99
Sentinel	Change in Distribution Charge		\$1.38	\$2.23	\$2.17	\$1.89	\$1.79
Lighting (0.4 kW)	% Distribution Increase		14.46%	20.46%	16.54%	12.33%	10.44%
,	% Increase of Total Bill		7.36%	8.74%	7.83%	6.32%	5.65%
	Distribution Charge	\$7.76	\$6.99	\$7.97	\$8.68	\$8.98	\$9.24
Street	Change in Distribution Charge		\$(0.77)	\$0.98	\$0.71	\$0.30	\$0.26
Lighting (1 kW)	% Distribution Increase		(9.98)%	14.07%	8.92%	3.46%	2.91%
· ,	% Increase of Total Bill		(1.10)%	3.16%	2.24%	0.96%	0.83%
Unmetered	Distribution Charge	\$17.08	\$17.49	\$19.55	\$21.37	\$22.67	\$23.82
Scattered	Change in Distribution Charge		\$0.41	\$2.06	\$1.82	\$1.30	\$1.15
Load	% Distribution Increase		2.42%	11.76%	9.33%	6.10%	5.07%
(470 kWh)	% Increase of Total Bill		0.98%	2.36%	2.05%	1.44%	1.26%



1

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Table 1 – UPDATED FOR 2019 ACTUALS – Summary of Rate Impacts

D-4- 01		Approved			Proposed		
Rate Class		2020	2021	2022	2023	2024	2025
	Distribution Charge	\$28.64	\$30.62	\$32.50	\$34.04	\$35.03	\$35.65
Residential	Change in Distribution Charge		\$1.98	\$1.88	\$1.54	\$0.99	\$0.62
(750 kWh)	% Distribution Increase		6.91%	6.15%	4.74%	2.91%	1.77%
	% Increase of Total Bill		1.53%	1.33%	1.38%	0.69%	0.43%
	Distribution Charge	\$28.64	\$30.62	\$32.50	\$34.04	\$35.03	\$35.65
Residential	Change in Distribution Charge		\$1.98	\$1.88	\$1.54	\$0.99	\$0.62
(232 kWh)	% Distribution Increase		6.91%	6.15%	4.74%	2.91%	1.77%
	% Increase of Total Bill		3.58%	2.87%	2.49%	1.45%	0.90%
General	Distribution Charge	\$71.32	\$74.21	\$79.23	\$83.71	\$86.76	\$89.02
Service	Change in Distribution Charge		\$2.89	\$5.02	\$4.48	\$3.05	\$2.26
<50 kW	% Distribution Increase		4.05%	6.76%	5.65%	3.64%	2.60%
(2000 kWh)	% Increase of Total Bill		0.69%	1.36%	1.52%	0.80%	0.59%
General	Distribution Charge	\$1,461.93	\$1,508.85	\$1,620.11	\$1,788.85	\$1,857.00	\$1,909.66
Service	Change in Distribution Charge		\$46.93	\$111.26	\$168.74	\$68.15	\$52.66
50 kW - 1,499 kW	% Distribution Increase		3.21%	7.37%	10.42%	3.81%	2.84%
(250 kW)	% Increase of Total Bill		2.96%	(1.08)%	1.20%	0.38%	0.29%
General	Distribution Charge	\$15,941.18	\$16,483.93	\$17,672.63	\$19,315.57	\$20,048.54	\$20,512.79
Service	Change in Distribution Charge		\$542.75	\$1,188.70	\$1,642.94	\$732.97	\$464.25
1,500 kW - 4,999 kW	% Distribution Increase		3.40%	7.21%	9.30%	3.79%	2.32%
(2,500 kW)	% Increase of Total Bill		2.94%	(1.01)%	1.18%	0.40%	0.25%
	Distribution Charge	\$48,420.32	\$53,055.32	\$56,727.95	\$62,069.06	\$64,275.56	\$65,702.06
Large Use	Change in Distribution Charge		\$4,635.00	\$3,672.63	\$5,341.11	\$2,206.50	\$1,426.50
(7,500 kW)	% Distribution Increase		9.57%	6.92%	9.42%	3.55%	2.22%
	% Increase of Total Bill		3.46%	(1.19)%	1.38%	0.39%	0.25%
	Distribution Charge	\$9.53	\$11.25	\$13.34	\$15.38	\$17.30	\$19.12
Sentinel	Change in Distribution Charge		\$1.72	\$2.10	\$2.04	\$1.91	\$1.82
Lighting (0.4 kW)	% Distribution Increase		18.02%	18.64%	15.32%	12.43%	10.53%
(-)	% Increase of Total Bill		8.47%	8.13%	7.62%	6.38%	5.71%
	Distribution Charge	\$7.76	\$7.46	\$8.08	\$8.80	\$9.11	\$9.38
Street	Change in Distribution Charge		\$(0.30)	\$0.62	\$0.72	\$0.31	\$0.27
Lighting (1 kW)	% Distribution Increase		(3.89)%	8.26%	8.94%	3.55%	3.00%
	% Increase of Total Bill		(0.22)%	1.96%	2.93%	0.99%	0.87%
Unmetered	Distribution Charge	\$17.08	\$17.68	\$19.38	\$21.25	\$22.55	\$23.70
Scattered	Change in Distribution Charge		\$0.60	\$1.71	\$1.86	\$1.30	\$1.15
Load	% Distribution Increase		3.54%	9.64%	9.61%	6.13%	5.10%
(470 kWh)	% Increase of Total Bill		0.92%	1.96%	2.42%	1.44%	1.26%



Hydro Ottawa Limited
EB-2019-0261
Exhibit 8
Tab 12
Schedule 1
UPDATED
May 5, 2020
Page 4 of 6

1 2.1. SUMMARY OF RESIDENTIAL RATE IMPACTS

- 2 Figure 1 below, as originally submitted, displays the bill components for a Hydro Ottawa
- 3 Regulated Price Plan ("RPP") residential consumer who uses 750 kWh per month.

4 5 For the 2016-2020 period, the bill has been illustrated using the OEB-approved rates for all

6 charges. Prior to November 1, 2019, the Total Bill (After Rebate) amount has been adjusted by

7 the 8% Provincial Rebate as a result of the Ontario Rebate for Electricity Consumers Act, 2016.

8

- 9 For the 2021-2025 Test Years, Hydro Ottawa has used the rates detailed in Attachment
- 10 8-12-1(A): 2021-2025 Bill Impacts Model. This includes the following: the proposed distribution,
- 11 transmission, and network charges; the current RPP rates (effective November 1, 2019); the
- 12 Wholesale charge; taxes; and application of the 31.8% Ontario Electricity Rebate to all years.

13

- 14 Figure 1, as updated below, displays the bill components for a Hydro Ottawa Regulated Price
- 15 Plan ("RPP") residential consumer who uses 750 kWh per month.

16

- 17 For the 2016-2020 period, the bill has been illustrated using the OEB-approved rates for all
- 18 charges. Prior to November 1, 2019, the Total Bill (After Rebate) amount has been adjusted by
- 19 the 8% Provincial Rebate as a result of the Ontario Rebate for Electricity Consumers Act, 2016.

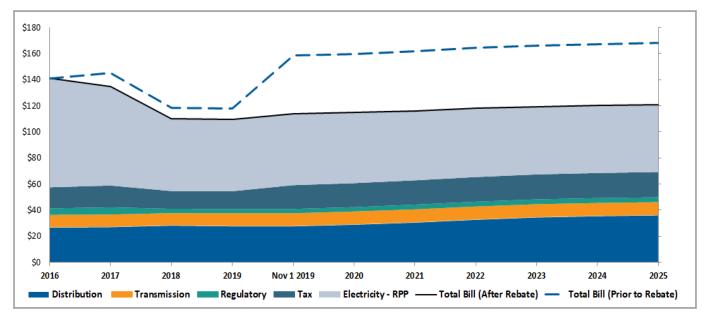
- 21 For the 2021-2025 Test Years, Hydro Ottawa has used the rates detailed in UPDATED
- 22 Attachment 8-12-1(A): 2021-2025 Bill Impacts Model. This includes the following: the proposed
- 23 distribution, transmission, and network charges; RPP rates effective November 1, 2019; the
- 24 Wholesale charge; taxes; and application of the 31.8% Ontario Electricity Rebate to all years.



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Figure 1 – AS ORIGINALLY SUBMITTED – Hydro Ottawa Bill Components 2016-2025

Residential Customer (750 kWh)



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1



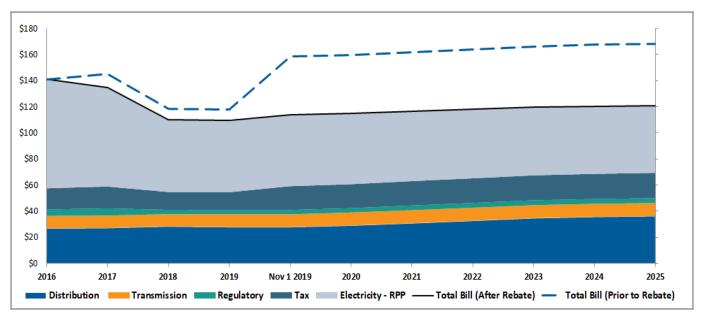
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Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 UPDATED May 5, 2020 Page 6 of 6

Figure 1 – UPDATED FOR 2019 ACTUALS – Hydro Ottawa Bill Components 2016-2025

Residential Customer (750 kWh)



	_		R	ate	s Summary 2020-2025							
Rate Class		202	0 Approved		2021 Proposed	20	022 Proposed	2023 Proposed	2	024 Proposed	20:	25 Proposed
	Distribution Charge	\$	28.64	\$	30.62	\$	32.50	\$ 34.04	\$	35.03	\$	35.65
Residential	Change in Distribution Charge			\$	1.98	\$	1.88	\$ 1.54	\$	0.99	\$	0.62
(750 kWh)	% Distribution Increase				6.91%		6.15%	4.74%)	2.91%		1.77%
(750 KVVII)	Change in Total Bill			\$	1.75	\$	1.54	\$ 1.63	\$	0.82	\$	0.52
	% Increase of Total Bill				1.53%		1.33%	1.38%)	0.69%		0.439
	Distribution Charge	\$	28.64	\$	30.62	\$	32.50	\$ 34.04	\$	35.03	\$	35.65
D. Maria and al	Change in Distribution Charge			\$	1.98	\$	1.88	\$ 1.54	\$	0.99	\$	0.62
Residential	% Distribution Increase				6.91%		6.15%	4.74%)	2.91%		1.779
(232 kWh)	Change in Total Bill			\$	1.86	\$	1.54	\$ 1.38	\$	0.82	\$	0.52
	% Increase of Total Bill				3.58%		2.87%	2.49%	,	1.45%		0.909
	Distribution Charge	\$	71.32	\$	74.21	\$	79.23	\$ 83.71	\$	86.76	\$	89.02
0	Change in Distribution Charge			\$	2.89	\$	5.02	\$ 4.48	\$	3.05	\$	2.26
	% Distribution Increase				4.05%		6.76%	5.65%	,	3.64%		2.609
(2000 KVVN)	Change in Total Bill			\$	2.07	\$	4.09	\$ 4.63	\$	2.49	\$	1.85
	% Increase of Total Bill			Ė	0.69%		1.36%	1.52%	,	0.80%		0.59%
	Distribution Charge	\$	1,461.93	\$	1.508.85	\$	1.620.11	\$ 1,788.85	\$	1.857.00	\$	1.909.66
General Service 50-	Change in Distribution Charge		,	\$	46.93	\$	111.26	\$ 168.74	\$	68.15	\$	52.66
General Service <50kW (2000 kWh) General Service 50- 1,499 kWh (250 KW)	% Distribution Increase			Ė	3.21%		7.37%	10.42%	,	3.81%		2.849
	Change in Total Bill			\$	587.37	-\$	219.72	\$ 242.20	\$	77.10	\$	59.62
	% Increase of Total Bill			Ė	2.96%		-1.08%	1.20%	,	0.38%		0.29%
	Distribution Charge	\$	15,941.18	\$	16,483.93	\$	17,672.63	\$ 19,315.57	\$	20,048.54	\$	20,512.79
General Service 1.500-	Change in Distribution Charge		-,-	\$	542.75	\$	1,188.70	\$ 1,642.94	\$	732.97	\$	464.25
4,999 kWh	% Distribution Increase			Ť	3.40%	Ė	7.21%	9.30%	,	3.79%		2.329
(2500 KW)	Change in Total Bill			\$	5.891.89	-\$	2.077.14	\$ 2.417.90	\$	828.98	\$	525.67
,	% Increase of Total Bill				2.94%	T .	-1.01%	1.18%		0.40%	· ·	0.25%
	Distribution Charge	\$	48,420.32	\$	53.055.32	\$	56.727.95	\$ 62,069.06	\$	64,275.56	\$	65,702.06
	Change in Distribution Charge		10,120.02	\$	4,635.00	\$	3,672.63	\$ 5,341.11	\$	2,206.50	\$	1,426.50
Large Use	% Distribution Increase			Ψ.	9.57%	—	6.92%	9.42%		3.55%		2.229
(7500KW)	Change in Total Bill			\$	21.306.29	-\$	7.603.77	\$ 8.669.93	\$	2,495.74	\$	1,615.53
	% Increase of Total Bill			Ť	3.46%	T	-1.19%	1.38%	٠.	0.39%	<u> </u>	0.25%
	Distribution Charge	\$	9.53	\$	11.25	\$	13.34	\$ 15.38		17.30	\$	19.12
	Change in Distribution Charge	Ψ-	0.00	\$	1.72	\$	2.10	\$ 2.04	\$	1.91	\$	1.82
Sentinel Lighting	% Distribution Increase			Ψ	18.02%	Ψ.	18.64%	15.32%	, V	12.43%	Ψ	10.53%
(0.4 KW)	Change in Total Bill	-		\$	1.65	\$	1.72	\$ 1.74	\$	1.57	\$	1.50
	% Increase of Total Bill	-		Ψ	8.47%	Ψ	8.13%	7.62%	, V	6.38%	Ψ	5.719
	Distribution Charge	\$	7.76	\$	7.46	\$	8.08	\$ 8.80	\$	9.11	\$	9.38
	Change in Distribution Charge	Ψ	7.70	-\$	0.30	\$	0.62	\$ 0.72		0.31	\$	0.27
Street Lighting	% Distribution Increase			-ψ	-3.89%	Ψ	8.26%	8.94%		3.55%	Ψ	3.00%
(1 KW)	Change in Total Bill			-\$	0.08	\$	0.71	\$ 1.08	\$	0.38	\$	0.33
	% Increase of Total Bill	-		Ψ	-0.22%	т.	1.96%	2.93%		0.99%	Ψ	0.879
	Distribution Charge	\$	17.08	\$	17.68	\$	19.38	\$ 21.25	_	22.55	\$	23.70
Unmetered Scattered	Change in Distribution Charge	φ	17.00	\$	0.60	\$	19.36	\$ 21.25 \$ 1.86		1.30	\$	1.15
Unmetered Scattered Load	% Distribution Increase			φ	3.54%	ψ	9.64%	9.61%		6.13%	Ψ	5.10%
(470 kWh)	Change in Total Bill			\$	0.65	\$	1.40	\$ 1.76		1.07	\$	0.95
(TIO KVIII)				Ф		Φ		•			φ	1.26%
	% Increase of Total Bill	I			0.92%	1	1.96%	2.42%)	1.44%		1.26

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Proposed Rate

Distribution

Fixed		Current (2020)	2021	2022	2023	2024	2025
	Residential	27.79	30.59	32.47	34.04	35.03	35.65
	GS <50	19.32	20.61	22.03	23.31	24.16	24.82
	GS 50 to 1,499 kW	200.00	200.00	212.51	223.60	230.55	235.78
	GS 1,500 to 4,999 kW	4,193.93	4,193.93	4,325.38	4,424.57	4,442.54	4,442.54
	Large Use	15,231.32	15,231.32	15,624.95	15,905.06	15,905.06	15,905.06
	Street Light	0.91	0.95	1.02	1.08	1.13	1.16
	Sentinel	3.17	3.91	4.64	5.35	6.01	6.64
	Unmetered Scattered Load	5.09	5.60	6.13	6.63	7.04	7.39
	Standby Power GS 50 to 1,499 kW	145.13	159.73	170.64	180.57	187.49	192.45
	Standby Power GS 1,500 to 4,999 kW	145.13	159.73	170.64	180.57	187.49	192.45
	Standby Power Large Use	145.13	159.73	170.64	180.57	187.49	192.45
Variable		Current (2020)	2021	2022	2023	2024	2025
Variable	Residential	Current (2020) 0	2021 0	2022 0	2023 0	2024 0	2025 0 \$/kWh
Variable	Residential GS <50						
Variable		0	0	0	0	0	0 \$/kWh
Variable	GS <50	0 0.0250	0 0.0267	0 0.0285	0 0.0302	0 0.0313	0 \$/kWh 0.0321 \$/kWh
Variable	GS <50 GS 50 to 1,499 kW	0 0.0250 4.8760	0 0.0267 5.5079	0 0.0285 5.9028	0 0.0302 6.2610	0 0.0313 6.5058	0 \$/kWh 0.0321 \$/kWh 6.6955 \$/kW
Variable	GS <50 GS 50 to 1,499 kW GS 1,500 to 4,999 kW	0 0.0250 4.8760 4.4562	0 0.0267 5.5079 5.1438	0 0.0285 5.9028 5.5669	0 0.0302 6.2610 5.9564	0 0.0313 6.5058 6.2424	0 \$/kWh 0.0321 \$/kWh 6.6955 \$/kW 6.4281 \$/kW
Variable	GS <50 GS 50 to 1,499 kW GS 1,500 to 4,999 kW Large Use	0 0.0250 4.8760 4.4562 4.2422	0 0.0267 5.5079 5.1438 5.3135	0 0.0285 5.9028 5.5669 5.7512	0 0.0302 6.2610 5.9564 6.1552	0 0.0313 6.5058 6.2424 6.4494	0 \$/kWh 0.0321 \$/kWh 6.6955 \$/kW 6.4281 \$/kW 6.6396 \$/kW
Variable	GS <50 GS 50 to 1,499 kW GS 1,500 to 4,999 kW Large Use Street Light	0 0.0250 4.8760 4.4562 4.2422 6.3414	0 0.0267 5.5079 5.1438 5.3135 6.6719	0 0.0285 5.9028 5.5669 5.7512 7.2257	0 0.0302 6.2610 5.9564 6.1552 7.7183	0 0.0313 6.5058 6.2424 6.4494 7.9806	0 \$/kWh 0.0321 \$/kWh 6.6955 \$/kW 6.4281 \$/kW 6.6396 \$/kW 8.2236 \$/kW
Variable	GS <50 GS 50 to 1,499 kW GS 1,500 to 4,999 kW Large Use Street Light Sentinel	0 0.0250 4.8760 4.4562 4.2422 6.3414 14.8502	0 0.0267 5.5079 5.1438 5.3135 6.6719 18.3405	0 0.0285 5.9028 5.5669 5.7512 7.2257 21.7549	0 0.0302 6.2610 5.9564 6.1552 7.7183 25.0873	0 0.0313 6.5058 6.2424 6.4494 7.9806 28.2183	0 \$/kWh 0.0321 \$/kWh 6.6955 \$/kW 6.4281 \$/kW 6.6396 \$/kW 8.2236 \$/kW 31.1964 \$/kW
Variable	GS <50 GS 50 to 1,499 kW GS 1,500 to 4,999 kW Large Use Street Light Sentinel Unmetered Scattered Load	0 0.0250 4.8760 4.4562 4.2422 6.3414 14.8502 0.0242	0 0.0267 5.5079 5.1438 5.3135 6.6719 18.3405 0.0263	0 0.0285 5.9028 5.5669 5.7512 7.2257 21.7549 0.0288	0 0.0302 6.2610 5.9564 6.1552 7.7183 25.0873 0.0311	0 0.0313 6.5058 6.2424 6.4494 7.9806 28.2183 0.0330	0 \$/kWh 0.0321 \$/kWh 6.6955 \$/kW 6.4281 \$/kW 6.6396 \$/kW 8.2236 \$/kW 31.1964 \$/kW 0.0347 \$/kWh

Deferral/Variance Account Disposition Rate Rider

Rate Rider Calculation for Deferral / Variance Accounts Balances (excluding Global Adj.) 1550, 1551, 1584, 1586, 1595

	Current (2020)	2021	2022	2023	2024	2025
Residential	-0.0003	-0.0006	-0.0006			\$/kWh
GS <50	-0.0002	-0.0006	-0.0006			\$/kWh
GS 50 to 1,499 kW	-0.0403	-0.1821	-0.1820			\$/kW
GS 1,500 to 4,999 kW	-0.0719	-0.1983	-0.1984			\$/kW
Large Use	-0.0863	-0.3099	-0.3105			\$/kW
Street Light	-0.0609	-0.2039	-0.2134			\$/kW
Sentinel	-0.0563	-0.2023	-0.2023			\$/kW
Unmetered Scattered Load	-0.0002	-0.0006	-0.0006			\$/kWh
Standby Power GS 50 to 1,499 kW						\$/kW
Standby Power GS 1,500 to 4,999 kW						\$/kW
Standby Power Large Use						\$/kW

Rate Rider Calculation for Group 2 Accounts							Tab 12
	Current (2020)	2021	2022	2023	2024	2025	Schedule 1
Residential	0.85	-0.22	-0.22			per customer per month	Attachment A
GS <50	0.0010	-0.0005	-0.0005			\$/kWh	UPDATED
GS 50 to 1,499 kW	0.1717	-0.2549	-0.2548			\$/kW	May 5, 2020
GS 1,500 to 4,999 kW	0.2427	-0.2761	-0.2763			\$/kW	Page 3 of 56
Large Use	0.1830	-0.3463	-0.3470			\$/kW	
Street Light	0.5107	-0.1362	-0.1426			\$/kW	
Sentinel	1.0461	-0.0016	-0.0016			\$/kW	
Unmetered Scattered Load	0.0013	-0.0004	-0.0004			\$/kWh	
Standby Power GS 50 to 1,499 kW						\$/kW	
Standby Power GS 1,500 to 4,999 kW						\$/kW	
Standby Power Large Use						\$/kW	
Rate Rider Calculation for Accounts 1568 - LRAM							
	Current (2020)	2021	2022	2023	2024	2025	
Residential		0.25	0.25			per customer per month	
GS <50		0.0006	0.0006			\$/kWh	
GS 50 to 1,499 kW		-0.0176	-0.0176			\$/kW	
GS 1,500 to 4,999 kW		0.0483	0.0483			\$/kW	
Large Use		0.0760	0.0762			\$/kW	
Street Light		-0.0257	-0.0268			\$/kW	
Sentinel						\$/kW	
Unmetered Scattered Load		-0.0002	-0.0002			\$/kWh	
Standby Power GS 50 to 1,499 kW						\$/kW	
Standby Power GS 1,500 to 4,999 kW						\$/kW	
Standby Power Large Use						\$/kW	
Rate Rider Calculation for Gain and Loss	Current (2020)	2021	2022	2023	2024	2025	
Residential	Current (2020)	2021	2022	2023	2024	\$/kWh	
GS <50						\$/kWh	
GS 50 to 1,499 kW						\$/kW	
GS 1,500 to 4,999 kW						\$/kW	
Large Use						\$/kW	
Street Light						\$/kW	
Sentinel						\$/kW	
Unmetered Scattered Load						\$/kWh	
Standby Power GS 50 to 1,499 kW						\$/kW	
Standby Power GS 1,500 to 4,999 kW						\$/kW	
Standby Power Large Use						\$/kW	
Standby I Ower Large Ose						ψ/ Ιζ ν ν	

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Rate Rider Calculation for PILs						
	Current (2020)	2021	2022	2023	2024	2025
Residential						\$/kWh
GS <50						\$/kWh
GS 50 to 1,499 kW						\$/kW
GS 1,500 to 4,999 kW						\$/kW
Large Use						\$/kW
Street Light						\$/kW
Sentinel						\$/kW
Unmetered Scattered Load						\$/kWh
Standby Power GS 50 to 1,499 kW						\$/kW
Standby Power GS 1,500 to 4,999 kW						\$/kW
Standby Power Large Use						\$/kW
Rate Rider Calculation for Generic						
	Current (2020)	2021	2022	2023	2024	2025
Residential						\$/kWh
GS <50						\$/kWh
GS 50 to 1,499 kW						\$/kW
GS 1,500 to 4,999 kW						\$/kW
Large Use						\$/kW
Street Light						\$/kW
Sentinel						\$/kW
Unmetered Scattered Load						\$/kWh
Standby Power GS 50 to 1,499 kW						\$/kW
Standby Power GS 1,500 to 4,999 kW						\$/kW
Standby Power Large Use						\$/kW
Rate Rider Calculation for RSVA - Power - Global Adjustment						
	Current (2020)	2021	2022	2023	2024	2025
Residential	-0.0015	0.0026				\$/kWh
GS <50	-0.0015	0.0026				\$/kWh
GS 50 to 1,499 kW	-0.0015	0.0026				\$/kWh
GS 1,500 to 4,999 kW	-0.0015	0.0026				\$/kWh
Large Use	-0.0015	0.0026				\$/kWh
Street Light	-0.0015	0.0026				\$/kWh
Sentinel						\$/kWh
Unmetered Scattered Load						\$/kWh
Standby Power GS 50 to 1,499 kW						\$/kWh
Standby Power GS 1,500 to 4,999 kW						\$/kWh
Standby Power Large Use						\$/kWh

Rate Rider Calculation for Deferral / Variance Accounts Balances (excluding Global Adj.) - NON-WMP 1580 and 1588

	Current (2020)	2021	2022	2023	2024	2025
Residential	0.0000					\$/kWh
GS <50	0.0000					\$/kWh
GS 50 to 1,499 kW	-0.0247	-0.1053				\$/kW
GS 1,500 to 4,999 kW	0.0000	-0.1176				\$/kW
Large Use	0.0000					\$/kW
Street Light	0.0000					\$/kW
Sentinel	0.0000					\$/kW
Unmetered Scattered Load	0.0000					\$/kWh
Standby Power GS 50 to 1,499 kW	0					\$/kW
Standby Power GS 1,500 to 4,999 kW	0					\$/kW
Standby Power Large Use	0					\$/kW
RTSR - Network						
	Current (2020)	2021	2022	2023	2024	2025
Residential	0.0076	0.0076	0.0076	0.0076	0.0076	0.0076 \$/kWh
GS <50	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071 \$/kWh
GS 50 to 1,499 kW	2.9017	2.9017	2.9017	2.9017	2.9017	2.9017 \$/kW
GS 1,500 to 4,999 kW	3.0128	3.0128	3.0128	3.0128	3.0128	3.0128 \$/kW
Large Use	3.3399	3.3399	3.3399	3.3399	3.3399	3.3399 \$/kW
Street Light	2.1529	2.1529	2.1529	2.1529	2.1529	2.1529 \$/kW
Sentinel	2.1420	2.1420	2.1420	2.1420	2.1420	2.1420 \$/kW
Unmetered Scattered Load	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071 \$/kW
Standby Power GS 50 to 1,499 kW						\$/kW
Standby Power GS 1,500 to 4,999 kW						\$/kW
Standby Power Large Use						\$/kW
RTSR - Line and Transformation Connection						
	Current (2020)	2021	2022	2023	2024	2025
Residential	0.0052	0.0052	0.0052	0.0052	0.0052	0.0052 \$/kWh
GS <50	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050 \$/kWh
GS 50 to 1,499 kW	2.0474	2.0474	2.0474	2.0474	2.0474	2.0474 \$/kW
GS 1,500 to 4,999 kW	2.1882	2.1882	2.1882	2.1882	2.1882	2.1882 \$/kW
Large Use	2.4642	2.4642	2.4642	2.4642	2.4642	2.4642 \$/kW
Street Light	1.5528	1.5528	1.5528	1.5528	1.5528	1.5528 \$/kW
Sentinel	1.5211	1.5210	1.5210	1.5210	1.5210	1.5210 \$/kW
Unmetered Scattered Load	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050 \$/kW
Standby Power GS 50 to 1,499 kW						\$/kW
Standby Power GS 1,500 to 4,999 kW						\$/kW
Standby Power Large Use						\$/kW

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Wholes	ale Market Service Charge (WMSC)						
	3. ()	Current (2020)	2021	2022	2023	2024	2025
	Residential	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	GS <50	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	GS 50 to 1,499 kW	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	GS 1,500 to 4,999 kW	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	Large Use	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	Street Light	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	Sentinel	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	Unmetered Scattered Load	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	Standby Power GS 50 to 1,499 kW	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	Standby Power GS 1,500 to 4,999 kW	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
	Standby Power Large Use	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034 \$/kWh
Rural ar	nd Remote Rate Protection (RRRP)						
	, ,	Current (2020)	2021	2022	2023	2024	2025
	Residential	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	GS <50	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	GS 50 to 1,499 kW	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	GS 1,500 to 4,999 kW	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	Large Use	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	Street Light	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	Sentinel	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	Unmetered Scattered Load	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	Standby Power GS 50 to 1,499 kW	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	Standby Power GS 1,500 to 4,999 kW	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
	Standby Power Large Use	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005 \$/kWh
Standar	d Supply Service Charge						
		Current (2020)	2021	2022	2023	2024	2025
	Residential	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	GS <50	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	GS 50 to 1,499 kW	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	GS 1,500 to 4,999 kW	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	Large Use	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	Street Light	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	Sentinel	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	Unmetered Scattered Load	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	Standby Power GS 50 to 1,499 kW	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	Standby Power GS 1,500 to 4,999 kW	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
	Standby Power Large Use	0.25	0.62	0.64	0.66	0.68	0.70 per customer per month
RPP Ra	tes	Current (2020)	2021	2022	2023	2024	2025
	TOU - Off Peak	0.101	0.101	0.101	0.101	0.101	0.101
	TOU - Mid Peak	0.144	0.144	0.144	0.144	0.144	0.144
	TOU - On Peak	0.208	0.208	0.208	0.208	0.208	0.208
	France, DDD Tion 1	0.110	0.110	0.110	0.110	0.110	0.110
	Energy - RPP - Tier 1	0.119	0.119	0.119	0.119	0.119	0.119
	Energy - RPP - Tier 2	0.139	0.139	0.139	0.139	0.139	0.139
	Average IESO Wholesale Market Price	0.1101	0.1101	0.1101	0.1101	0.1101	0.1101

2025

0.57000 per customer per month 0.57000 per customer per month

Low Voltage

	Current (2020)	2021	2022	2023	2024	2025
Residential	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006 \$/kWh
GS <50	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006 \$/kWh
GS 50 to 1,499 kW	0.02452	0.02434	0.02465	0.02494	0.02518	0.02552 \$/kW
GS 1,500 to 4,999 kW	0.02621	0.02601	0.02635	0.02666	0.02691	0.02728 \$/kW
Large Use	0.02951	0.02929	0.02967	0.03002	0.03030	0.03072 \$/kW
Street Light	0.01860	0.01846	0.01870	0.01892	0.01910	0.01936 \$/kW
Sentinel	0.01822	0.01808	0.01831	0.01853	0.01871	0.01896 \$/kW
Unmetered Scattered Load	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006 \$/kW
Standby Power GS 50 to 1,499 kW						\$/kW
Standby Power GS 1,500 to 4,999 kW						\$/kW
Standby Power Large Use						\$/kW

SME

	Current (2020)	2021	2022	2023	2024
Residential	0.57000	0.57000	0.57000	0.57000	0.57000
GS <50	0.57000	0.57000	0.57000	0.57000	0.57000
GS 50 to 1,499 kW					
GS 1,500 to 4,999 kW					
Large Use					
Street Light					
Sentinel					
Unmetered Scattered Load					
Standby Power GS 50 to 1,499 kW					
Standby Power GS 1,500 to 4,999 kW					
Standby Power Large Use					

Provincial Government Rebate

Standby Power GS 1,500 to 4,999 kW Standby Power Large Use

	Current (2020)	2021	2022	2023	2024	2025
Residential	31.8%	31.8%	31.8%	31.8%	31.8%	31.8%
GS <50	31.8%	31.8%	31.8%	31.8%	31.8%	31.8%
GS 50 to 1,499 kW						
GS 1,500 to 4,999 kW						
Large Use						
Street Light	31.8%	31.8%	31.8%	31.8%	31.8%	31.8%
Sentinel	31.8%	31.8%	31.8%	31.8%	31.8%	31.8%
Unmetered Scattered Load	31.8%	31.8%	31.8%	31.8%	31.8%	31.8%
Standby Power GS 50 to 1,499 kW						

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Loss Factor (Bill Impacts)

	Current (2020)	2021	2022	2023	2024	2025
Residential	3.35%	3.38%	3.38%	3.38%	3.38%	3.38%
GS <50	3.35%	3.38%	3.38%	3.38%	3.38%	3.38%
GS 50 to 1,499 kW	3.35%	3.38%	3.38%	3.38%	3.38%	3.38%
GS 1,500 to 4,999 kW	3.35%	3.38%	3.38%	3.38%	3.38%	3.38%
Large Use	0.62%	0.51%	0.51%	0.51%	0.51%	0.51%
Street Light	3.35%	3.38%	3.38%	3.38%	3.38%	3.38%
Sentinel	3.35%	3.38%	3.38%	3.38%	3.38%	3.38%
Unmetered Scattered Load	3.35%	3.38%	3.38%	3.38%	3.38%	3.38%
Standby Power GS 50 to 1,499 kW						
Standby Power GS 1,500 to 4,999 kW						
Standby Power Large Use						
Loss Factor (Rate Order)						
Total Loss Factor - Secondary Metered Customer < 5,000 kW		1.0338	1.0338	1.0338	1.0338	1.0338
Total Loss Factor - Secondary Metered Customer > 5,000 kW		1.0152	1.0152	1.0152	1.0152	1.0152
Total Loss Factor - Primary Metered Customer < 5,000 kW		1.0234	1.0234	1.0234	1.0234	1.0234
Total Loss Factor - Primary Metered Customer > 5,000 kW		1.0051	1.0051	1.0051	1.0051	1.0051

Customer Class: Residential TOU / non-TOU: TOU

Consumption 100 kWh May 1 - October 31 November 1 - April 30 (Select this radio button for applications filed after Oct 31)

Part Part				Current	Board-Ap	proved	1 🗆	20	021 Proposed			Impact 202	1 vs 2020		202	2 Propose	d	Impact 202	22 vs 2021		20	23 Proposed		lm	pact 202	3 vs 2022
Modelly Booked Charge Modelly S 27700 S - 00 5					Volume		ΙF		Volume							Volume						Volume			•	
Size Figure 201-201-201-201-201-201-201-201-201-201-	Martha Carda Chara																							\$ C		% Change
Part Part		Monthly	\$	27.7900	1		\$	30.5900	1		\$	2.80	10.08%	\$	32.4700			\$ 1.88	6.15%	\$	34.0400		34.04	\$	1.5/	4.84%
Marked Marked Conduction for PRLs per NVN		per kWh	s	-						•		-					*						-		-	
Rate Roce Calculation for put NVN	and Loss	•			100	\$ -	\$		100	\$ -	\$	-		\$	-	100	\$ -	\$ -		\$	-	100 \$	-	\$	-	
Part Part	Rate Rider Calculation for PILs	per kWh	\$	-	100	s -	\$		100	٠.	\$	_		s	_	100		s .		s	_	100 \$	_	\$	_	
Control Cont					100	•	•			Ť	"			•		100	*	•		•		.00 \$		1		
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Sub-Total A (exclusting pass through)	Deferral/Variance Account	Monthly	\$	0.8500							'													1		
Sub-Tried A (secluding pass through) Sub-Tried A (sec	Disposition Rate Rider Group 2				1	\$ 0.85	-\$	0.22	1	-\$ 0.22	-\$	1.07	-126.06%	-\$	0.22	1 -	\$ 0.22	\$ 0.00	-0.95%	\$	-	1 \$	-	\$	0.22	-100.00%
Sub-Total A (sectuding pass through)					100				400							100						100 *				
Sub-Total A (secturing pass through) \$ 28.64 \$ 30.02 \$ 1.98 6.974 \$ 0.000											\$							s -					- 1	\$	- 1	
Deferral / Variance Accounts per W/h S 0.0003 100 S 0.00 S 0.0006 100 S 0.00 S 0.0006 S 0.	Sub-Total A (excluding pass the	rough)			100		H		100		S	1.98	6.91%					\$ 1.88	6.15%			\$	34.04	\$	1.54	4.74%
Control Verticate Accounts Deferral Verticate Accounts Deferral Verticate Accounts Deferral Verticate Accounts Deferral Verticate Accounts Deferral Verticate Accounts Deferral Verticate Accounts Deferral Deferr	Deferral/Variance Account		-\$	0.0003							_											Ť				
Balmone (encluding Global Agg) - NON-WIMP Low Votage Service Charge	Disposition Rate Rider Group 1				100	-\$ 0.03	-\$	0.0006	100	-\$ 0.06	-\$	0.03	100.00%	-\$	0.0006	100	\$ 0.06	\$ -	0.00%	\$	-	100 \$	-	\$	0.06	-100.00%
Balmone (encluding Global Agg) - NON-WIMP Low Votage Service Charge																										
Balmone (encluding Global Agg) - NON-WIMP Low Votage Service Charge	Deferrel / Verience Asserta	nor MMh																								
NON-WIRD		per kvvii	3	-	100	s -	\$		100	٠.	\$	_		s	_	100		s .		s	_	100 \$	_	\$	_	
Low Voltage Service Charge per kWh \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$ 0,01 \$ 0,00006 103 \$					100	•	•			Ť	"			•		100	*	•		•		.00		1		
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Sub-Total B - Distribution			\$		3				3		\$	0.00						\$ -						\$	-	0.00%
Includes Sub-Total A		Monthly	3	0.5700	- 1		3	0.5700	- 1		3			3	0.5700	- 1		3 -		3	0.5700			2		0.00%
FRSR. Line and Transformation per kWh \$ 0.0076 103 \$ 0.79 \$ 0.0052 103 \$ 0.54 \$ 0.0052 103 \$ 0.55 \$ 0.0052 103 \$ 0.55 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.0052 103 \$ 0.005						\$ 29.61				\$ 31.57	\$	1.95	6.59%				\$ 33.45	\$ 1.88	5.96%			\$	35.05	\$	1.60	4.78%
Connection Park Win S 0.0002 103 S 0.54 S 0.0005 103 S 0.54 S S 0.000 0.05% S 0.0005 103 S 0.54 S S 0.0005 103 S 0.55 S 0.0005 103 S 0.005 S 0.0005		per kWh	\$	0.0076	103	\$ 0.79	\$	0.0076	103	\$ 0.79	\$	0.00	0.03%	\$	0.0076	103	\$ 0.79	\$ -	0.00%	\$	0.0076	103 \$	0.79	\$	-	0.00%
Sub-Total C - Delivery Sub-Total Bill (Including HST) Sub-Total Bill (Including HST)		per kWh	s	0.0052	103	\$ 0.54	s	0.0052	103	\$ 0.54	s	0.00	0.03%	s	0.0052	103	\$ 0.54	s -	0.00%	s	0.0052	103 \$	0.54	s	_	0.00%
Control of Charge (NMSC) Standard Super (NMSC) S		F	-								Ť							_		_						
Wholesele Market Service per KWh S 0.0034 103 \$ 0.35 \$ 0.004 103 \$ 0.35 \$ 0.005 \$ 0.00 0.03% \$ 0.005 \$ 0.005 \$ 0.00 0.03% \$ 0.005 \$ 0.005 \$ 0.0005 \$ 0.005 \$ 0.0005 \$ 0.005 \$ 0.0005 \$						\$ 30.94				\$ 32.89	\$	1.95	6.31%				\$ 34.77	\$ 1.88	5.72%			\$	36.37	\$	1.60	4.60%
Charge (WMC) Rate Protection (RRR) per kWh \$ 0.0005 103 \$ 0.05 \$ 0.0000 103 \$ 0.05 \$ 0.000 \$ 0.0		per kWh	s	0.0034			s	0.0034			_			S	0.0034					S	0.0034			_		
Problem (RRRP) South of South	Charge (WMSC)	•			103	\$ 0.35			103	\$ 0.35	\$	0.00	0.03%			103	\$ 0.35	\$ -	0.00%			103 \$	0.35	\$	-	0.00%
Standard Supple Service Charge Monthly S 0.2500 1 S 0.25 S 0.6200 1 S 0.62 S 0.37 148.00% S 0.640 1 S 0.64 S 0.02 3.23% S 0.6600 1 S 0.66 S 0.02 S		per kWh	\$	0.0005	103	\$ 0.05	\$	0.0005	103	\$ 0.05	\$	0.00	0.03%	\$	0.0005	103	\$ 0.05	s .	0.00%	\$	0.0005	103 \$	0.05	\$	_	0.00%
TOU - Off Peak					100																			-		
TOU - On Peak \$ 0.1440 17 \$ 2.45 \$ 0.1440 17 \$ 2.45 \$ \$ - 0.00% \$ 0.2080 18 \$ 3.74 \$ 0.20	Standard Supply Service Charge	Monthly	\$	0.2500	1	\$ 0.25	\$	0.6200	1	\$ 0.62	\$	0.37	148.00%	\$	0.6400	1	\$ 0.64	\$ 0.02	3.23%	\$	0.6600	1 \$	0.66	\$	0.02	3.13%
TOU - On Peak \$ 0.1440 17 \$ 2.45 \$ 0.1440 17 \$ 2.45 \$ \$ - 0.00% \$ 0.2080 18 \$ 3.74 \$ 0.20	TOU - Off Peak		s	0.1010	65	\$ 6.57	s	0.1010	65	\$ 6.57	s	_	0.00%	s	0.1010	65	\$ 6.57	s -	0.00%	s	0 1010	65 \$	6.57	s	_	0.00%
Energy RPP - Tier 1							\$				\$	-						\$ -		\$				\$	-	0.00%
Energy RPP - Tier 2 \$ 0.1390 0 \$ - \$ 0.1390 0 \$ - \$ 0.1390 0 \$ - \$ 0.1390 0 \$ 0.1390 0 \$ - \$ 0.1390 0 \$ - \$ 0.1390 0 \$ - \$ 0.1390 0 \$ 0.1390 0 \$ - \$ 0.1390 0 \$ - \$ 0.1390 0 \$ 0.1390 0 \$ - \$ 0.1390 0 \$ - \$ 0.1390 0 \$ - \$ 0.1390 0 \$ -											\$															0.00%
Total Bill on TOU (before Taxes) \$ 44.35 \$ 46.67 \$ 2.32 5.24% \$ 5.07 \$ 13% \$ 5.07 \$ 5.0							\$				\$	-	0.00%					\$ -	0.00%				11.90	\$		0.00%
HST Total Bill on RPP (including HST) 13% \$ 5.77 13% \$ 6.07 \$ 0.30 5.24% 5 5.64 5 5.64 5 5.64 5 5.67 5 1.83 5 1.24 5 1.54 5	Energy - RPP - Tier 2		\$	0.1390	0	\$ -	\$	0.1390	0	\$ -	\$	_		\$	0.1390	0	\$ -	\$ -		\$	0.1390	0 \$	-	\$	-	
Total Bill on RPP (Including HST) Total Bill on RP	Total Bill on TOU (before Taxes	;)				\$ 44.35				\$ 46.67	\$	2.32	5.24%				\$ 48.57	\$ 1.90	4.08%			\$	50.19	\$	1.62	3.33%
Provincial Rebate 31.8% \$ 14.10 31.8% \$ 14.84 \$ 0.74 5.24% \$ 31.8% \$ 15.95 \$ 0.00 4.08% \$ 31.8% \$ 15.95 \$ 0.51 \$ 5.24% \$ 5.2				13%				13%			\$	0.30			13%						13%	Ų		\$		3.33%
Total Bill on TOU (incl Prov. Rebate) \$ 36.01 \$ \$ 37.90 \$ 1.89 \$ 5.24% \$ \$ 33.44 \$ 1.54 \$ 4.08% \$ \$ 40.75 \$ \$ 1.31 \$ 100 (incl Prov. Rebate) \$ \$ 43.49 \$ \$ 43.49 \$ \$ 45.81 \$ \$ 2.32 \$ 5.34% \$ 1.54 \$ 4.08% \$ \$ 40.75 \$ \$ 1.32 \$ 1.				04.00/							\$													\$		3.33%
Total Bill on RPP (incl Prov. Rebate) \$ 43.49		h - 4 - 3	1	31.8%				31.8%		0 14.04	\$				31.8%						31.8%	\$		\$		3.33%
HST 13% \$ 5.65 13% \$ 5.96 \$ 0.30 5.34% 13% \$ 6.20 \$ 0.25 4.15% 13% \$ 6.41 \$ 0.21 Total Bill (including HST) \$ 49,14 \$ 5.177 \$ 2.62 5.34% \$ 5.592 \$ 2.15 4.15% \$ 5.575 \$ 1.83 Provincial Rebate 31.8% \$ 13.83 31.8% \$ 14.57 \$ 0.74 5.34% \$ 15.17 \$ 0.00 4.15% 31.8% \$ 15.09 \$ 0.51 Total Bill on RPP (incl Prov. Rebate) \$ 33.31 \$ \$ 37.20 \$ 1.89 \$ 5.34% \$ \$ 38.74 \$ 1.54 4.15% \$ 5 40.06 \$ \$ 1.31	Total Bill on TOU (Incl Prov. Re	pate)	_			\$ 36.01	ш			\$ 37.90	\$	1.89	5.24%				\$ 39.44	\$ 1.54	4.08%			\$	40.75	\$	1.31	3.33%
Total Bill (on RPP (Incl Prov. Rebate) \$ 49.14 \$ 49.14 \$ 51.77 \$ 2.82 \$ 53.92 \$ 2.15 4.15% \$ 55.75 \$ 1.83 Total Bill on RPP (Incl Prov. Rebate) \$ 31.8% \$ 37.20 \$ 1.89 5.34% \$ 31.8% \$ 1.57 \$ 1.83 \$ 1.57 \$ 1.83 \$ 1.83 \$ 1.83 \$ 1.50 \$ 1.83 \$ 1.83 \$ 1.83 \$ 1.50 \$ 1.83)									\$											\$		\$		3.39%
Provincial Rebate 31.8% \$ 13.83 \$ 14.57 \$ 0.74 5.34% \$ 15.17 \$ 0.60 4.15% \$ 15.69 \$ 0.51 Total Bill on RPP (incl Prov. Rebate) \$ 35.31 \$ 37.20 \$ 1.89 5.34% \$ 38.74 \$ 1.54 4.15% \$ 40.06 \$ 1.31			1	13%				13%			\$				13%						13%	T		\$		3.39%
Total Bill on RPP (Incl Prov. Rebate) \$ 35.31 \$ \$ 37.20 \$ 1.89 \$ 5.34% \$ \$ 38.74 \$ 1.54 \$ 4.15% \$ \$ 40.06 \$ 1.31			1	04.007							\$											\$		\$		3.39%
				31.8%				31.8%			\$				31.8%						31.8%	\$		\$		3.39%
Loss Factor (%) 3.3500% 3.3500% 3.3800% 3.3800%	Total Bill on RPP (incl Prov. Rel	bate)				\$ 35.31				\$ 37.20	\$	1.89	5.34%				\$ 38.74	\$ 1.54	4.15%			\$	40.06	\$	1.31	3.39%
Loss Factor (%) 3.3500% 3.3800%																				_						
0.0007/	Loss Factor (%)			3.3500%				3.3800%	1						3.3800%						3.3800%					

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

note that the Unarge \$ columns provide creakdowns of the amounts that each oill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS-50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS-50kW (kWh) - 60, 100, 500, 10000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 9 of 56

Customer Class: Residential

TOU / non-TOU: TOU

Consumption 100 kWh May 1 - Octob

			Current	Board-Ap	proved		1 [202	4 Propose	ed		Γ	Impact 2	024	vs 2023	Г		202	25 Propose	ed			Impact 202	5 vs 2024
	Charge Unit		Rate (\$)	Volume	Cha (\$				Rate (\$)	Volume	,	Charge (\$)	Ī	\$ Change		% Change		Rat (\$)		Volume	С	harge (\$)	,	Change	% Change
Monthly Service Charge	Monthly	S	27.7900	1		27.79	1 1		35.0300	- 1	s		ŀ	\$ 0.9		2.91%	- 1		.6500	1	s	35.65	s	0.62	1.77%
Smart Meter Rate Adder	,	-		1	š	-				1	\$			\$ -	-					1	Š	-	ŝ	-	
Rate Rider Calculation for Gain	per kWh	\$	-	100	s			\$		100				s -				s		100	s		s		
and Loss				100	9	-		Ψ	-	100	٠	-		· -				Ψ	-	100	9	- 1	9	_	
Rate Rider Calculation for PILs	per kWh	\$	-	100	\$	-		\$	-	100	\$	-		\$ -				\$	-	100	\$	-	\$	-	
Rate Rider Calculation for	per kWh	\$	-	400	_			\$		100	_	_		s -				s		100	_		s		
Generic				100		-		э	-	100								Þ	-	100	3	-	1 -	-	
				1	\$	-				1	\$			\$ -						1	\$	-	\$	-	
Distribution Volumetric Rate	per kWh	\$	-	100	\$	•		\$	-	100	\$			\$ -				\$	-	100	\$	-	\$	-	
Smart Meter Disposition Rider				100		•				100	\$			\$ -						100	\$	-	\$	-	
LRAM Rate Rider	Monthly	\$	-	100		-				100 100	\$			\$ -						100	\$	-	\$	-	
				100 100		-				100	\$			\$ - \$ -						100 100	\$	-	\$	-	
				100		-				100	\$			\$ -						100	\$		\$		
				100		-				100	s	-		\$ -						100	\$	- 1	s	-	
Deferral/Variance Account	Monthly	\$	0.8500		•					100	•			•						100	_		•		
Disposition Rate Rider Group 2	monuny	•	0.0000	1	s	0.85		s	_	1	s	_		s -				s		1	s	_	s	_	
					-						_										1				
				100	\$	-				100	\$	-		\$ -						100	\$	-	\$	-	
				100		-				100	\$	-		\$ -						100	\$	-	\$	-	
Sub-Total A (excluding pass the					\$	28.64	1 1				\$	35.03	L	\$ 0.9	19	2.91%					\$	35.65	\$	0.62	1.77%
Deferral/Variance Account	per kWh	-\$	0.0003								١.										١.				
Disposition Rate Rider Group 1				100	-\$	0.03		\$	-	100	\$	-		\$ -				\$	-	100	\$	-	\$	-	
Deferral / Variance Accounts	per kWh	s																							
Balances (excluding Global Adj.) -	per kwn	3	-	100	s	_		\$		100	\$	_		s -				s		100		_	s	_	
NON-WMP				100	9			Ф	-	100	Þ	-		-				φ	•	100	٠	-	٥	-	
				100	s					100	s	_		s -						100	s	_	s	_	
Low Voltage Service Charge	per kWh	\$	0.00006	103	s	0.01		\$	0.00006	103	\$			š -		0.00%		\$ 0.0	00006	103	\$	0.01	\$	-	0.00%
Line Losses on Cost of Power		s	0.1276	3	\$	0.43		\$	0.1276	3	\$			s -		0.00%			.1276	3	\$	0.43	\$	-	0.00%
Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$	0.57		\$	0.5700	- 1	\$	0.57		\$ -		0.00%			.5700	1	\$	0.57	\$	-	0.00%
Sub-Total B - Distribution					s	29.61					s	36.04		\$ 0.9	10	2.82%	Г				s	36.66	s	0.62	1.72%
(includes Sub-Total A)							1 1				·		L				L								
RTSR - Network	per kWh	\$	0.0076	103	\$	0.79		\$	0.0076	103	\$	0.79		\$ -		0.00%		\$ 0.	.0076	103	\$	0.79	\$	-	0.00%
RTSR - Line and Transformation	per kWh	\$	0.0052	103	\$	0.54		\$	0.0052	103	\$	0.54		\$ -		0.00%		\$ 0.	.0052	103	\$	0.54	\$	-	0.00%
Connection Sub-Total C - Delivery	•	-					+ +						-		_		-				-		-		
(including Sub-Total B)					\$	30.94					\$	37.36		\$ 0.9	9	2.72%					\$	37.98	\$	0.62	1.66%
Wholesale Market Service	per kWh	S	0.0034				t I	s	0.0034				ı	_	_			\$ 0.	.0034		_		_		
Charge (WMSC)				103	\$	0.35				103	\$	0.35		\$ -		0.00%				103	\$	0.35	\$	-	0.00%
Rural and Remote Rate	per kWh	\$	0.0005	103	s	0.05		\$	0.0005	103	\$	0.05		s -		0.00%		\$ 0.	.0005	103	s	0.05	s	_	0.00%
Protection (RRRP)																									
Standard Supply Service Charge	Monthly	\$	0.2500	1	\$	0.25		\$	0.6800	1	\$	0.68		\$ 0.0	12	3.03%		\$ 0.	.7000	1	\$	0.70	\$	0.02	2.94%
					١.						١.			_							L				
TOU - Off Peak TOU - Mid Peak		\$	0.1010	65 17		6.57 2.45		\$	0.1010	65 17				\$ - \$ -		0.00%			.1010	65		6.57	\$	-	0.009
TOU - Mid Peak TOU - On Peak		\$	0.1440 0.2080	17		3.74		\$	0.1440	17				\$ - \$ -		0.00%			.1440	17 18	\$	2.45 3.74	\$		0.009
Energy - RPP - Tier 1		S	0.2080	100		11.90		s	0.2080	100				\$ -		0.00%			.1190	100	\$	11.90	\$		0.009
Energy - RPP - Tier 2		s	0.1130	0	s	-		s	0.1130	0		- 11.30		\$ -		0.0070		\$ 0.		0	s	- 11.50	s		0.007
		v	0.1000		Ť		1	_	0.1000		ľ						1	Ψ		Ū	Ĭ		Ť		
Total Bill on TOU (before Taxes)					44.35					\$	51.20		\$ 1.0		2.01%					\$	51.84	\$	0.64	1.25%
HST			13%		\$	5.77			13%		\$	6.66		\$ 0.1		2.01%			13%		\$	6.74	\$	0.08	1.25%
Total Bill (including HST)						50.11					\$	57.86		\$ 1.1		2.01%					\$	58.58	\$	0.72	1.25%
Provincial Rebate		1	31.8%			14.10			31.8%		\$	16.28		\$ 0.3		2.01%			31.8%		\$	16.49	\$	0.20	1.25%
Total Bill on TOU (incl Prov. Re	bate)	_			\$	36.01					\$	41.58		\$ 0.8	2	2.01%	L				\$	42.09	\$	0.52	1.25%
Total Bill on RPP (before Taxes)				s	43.49	. 1				\$	50.34		\$ 1.0	11	2.05%	Ī				s	50.98	s	0.64	1.27%
HST (Before Taxes	•	1	13%		s	5.65			13%		\$	6.54		\$ 0.1		2.05%			13%	l	\$	6.63	\$	0.08	1.27%
Total Bill (including HST)		1			\$	49.14					\$	56.89		\$ 1.1	4	2.05%					\$	57.61	\$	0.72	1.27%
Provincial Rebate		1	31.8%		\$	13.83			31.8%		\$	16.01		\$ 0.3	2	2.05%		;	31.8%	l	\$	16.21	\$	0.20	1.27%
Total Bill on RPP (incl Prov. Rel	oate)				\$	35.31					\$	40.88		\$ 0.8	2	2.05%					\$	41.40	\$	0.52	1.27%
,	<u> </u>						: 1							-			1								
Loss Factor (%)			3.3500%	1			ı		3.3800%								г	2.2	8800%	1					
LUSS FACTOF (%)			3.3500%	ı			- L		3.3800%									3.3	oUU%	ľ					

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

Note that the "Charge \$ columns provide breakdowns of the amounts that each bill component consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In ϵ to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS+50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS+50kW (kWh) - 60, 100, 500, 10000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adju

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 10 of 56

Customer Class: Residential TOU / non-TOU: TOU

Consumption 232 kWh May 1 - October 31 O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

			Current	Board-Ap		7 [20	021 Proposed			Impact 202	1 vs 2020		202	2 Proposed			Impact 2022	vs 2021		20	23 Proposed		lm	act 2023	vs 2022
			Rate	Volume	Charge	1 [Rate	Volume	Charge	Г.				Rate	Volume	Charge	Π.				Rate	Volume	Charge			
Marsh L. Oardan Obarra	Charge Unit	S	(\$)		(\$) S 27.79		(\$)		(\$) \$ 30.59	\$	Change	% Change	\$	(\$) 32.4700	1 5	(\$) 32.47	\$	\$ Change	% Change	•	(\$) 34.0400	- 4	(\$) 34.04	\$ Ch	ange 1.57	% Change 4.84%
Monthly Service Charge Smart Meter Rate Adder	Monthly	3	27.7900	1	\$ 27.79	9 \$	30.5900	1		9	2.80	10.08%	2	32.4700	1 5		\$	1.88	6.15%	\$	34.0400	1 5		\$	1.57	4.84%
Rate Rider Calculation for Gain an	dnor kWh	s		232				232		9	-		•		232 \$		s	-		•		232		è	-	
Rate Rider Calculation for PILs	per kWh	Š		232		9		232		\$	1		\$		232 \$		\$			\$	- 1	232 5		Š		
Rate Rider Calculation for Generic		Š	_	232		9	-	232		Š	_		Š	_	232 8		s	_		\$		232 5		Š	_	
Tate Their Calculation for Canonic	poi kirii			1	s -		•	1	s -	s	_		•		1 5		s	_		-		1 5	_	Š	_	
Distribution Volumetric Rate	per kWh	s	-	232	š -	S	-	232	s -	ŝ	-		\$	-	232 \$	-	ŝ	-		\$		232	-	s	- 1	
Smart Meter Disposition Rider				232				232		s	-				232 \$		s	-				232 5		s	-	
LRAM Rate Rider	Monthly	\$	-	232	\$ -	\$	0.25	1	\$ 0.25	\$	0.25		\$	0.25	1 \$	0.25	\$	-	0.00%	\$	-	232 \$		-\$	0.25	-100.00%
				232				232		\$	-				232 \$	-	\$	-				232 \$		\$	-	
				232				232		\$	-				232 \$		\$	-				232 \$		\$	-	
				232				232	\$ -	\$	-				232 \$	i -	\$	-				232 \$		\$	-	
				232	\$ -			232	\$ -	\$	-				232 \$	-	\$	-				232 \$	-	\$	-	
Deferral/Variance Account	Monthly	\$	0.8500			. .																				
Disposition Rate Rider Group 2				1	\$ 0.85	-\$	0.22	1	\$ 0.22	-\$	1.07	-126.06%	-\$	0.22	1 -\$	0.22	\$	0.00	-0.95%	\$	-	1 \$	-	\$	0.22	-100.00%
				000	_			000	_						232 5		s					222				
				232 232	\$ -			232 232	\$ -	9	-				232 \$	-	3	-				232 5	-	\$	-	
Sub-Total A (excluding pass thr	rough)			232	\$ 28.64	1		232	\$ 30.62	\$	1.98	6.91%			232 \$	32.50	\$	1.88	6.15%			232 \$	34.04	S	1.54	4,74%
Deferral/Variance Account	per kWh	-\$	0.0003			7				Ė																
Disposition Rate Rider Group 1				232	-\$ 0.07	-\$	0.0006	232	\$ 0.14	-\$	0.07	100.00%	-\$	0.0006	232 -\$	0.14	\$	-	0.00%	\$	-	232 \$		\$	0.14	-100.00%
Deferral / Variance Accounts	per kWh	\$	-																							
Balances (excluding Global Adj.) -				232	\$ -	\$	-	232	\$ -	\$	-		\$	-	232 \$	-	\$	-		\$	-	232 \$	-	\$	-	
NON-WMP					_				_															_		
				232				232	\$ -	\$	-				232 \$		\$	-		_		232 \$		\$	-	
Low Voltage Service Charge Line Losses on Cost of Power	per kWh	\$	0.00006	240	\$ 0.0° \$ 0.99			240	\$ 0.01 \$ 1.00	\$	0.00 0.01	0.03%	\$	0.00006 0.1276	240 \$		\$	-	0.00%	\$	0.00006 0.1276	240 \$		s s	-	0.00%
Smart Meter Entity Charge	Monthly	9	0.1276	- 0	\$ 0.57			0	\$ 0.57	9	0.01	0.00%	9	0.1270	1 9	0.57	9	-	0.00%	\$	0.1270	1 5		è		0.00%
Sub-Total B - Distribution	MOHILIN	3	0.3700			7 6	0.5700	- '		a			3	0.3700	1 4		a.	-		a a	0.3700					
(includes Sub-Total A)					\$ 30.15	5			\$ 32.06	\$	1.92	6.36%			\$	33.95	\$	1.88	5.87%			1	35.62	\$	1.68	4.94%
RTSR - Network	per kWh	\$	0.0076	240	\$ 1.82	2 \$	0.0076	240	\$ 1.82	\$	0.00	0.03%	\$	0.0076	240 \$	1.82	\$	-	0.00%	\$	0.0076	240	1.82	\$	-	0.00%
RTSR - Line and Transformation	per kWh	s	0.0052	240	\$ 1.25	5 \$	0.0052	240	\$ 1.25		0.00	0.03%	s	0.0052	240	1.25	s	_	0.00%	\$	0.0052	240	1.25		_	0.00%
Connection	pei kwiii	٥	0.0032	240	\$ 1.23	, ,	0.0032	240	\$ 1.25	a	0.00	0.03%	æ	0.0032	240	1.20	a	-	0.00%	٠	0.0032	240 3	1.20	9	-	0.00%
Sub-Total C - Delivery					\$ 33.22	2			\$ 35.13	s	1.92	5.78%			5	37.02	s	1.88	5.36%				38.69	s	1.68	4.53%
(including Sub-Total B)					•	⊣ ⊢			•	Ě									0.007	_						
Wholesale Market Service Charge (WMSC)	per kWh	\$	0.0034	240	\$ 0.82	2 \$	0.0034	240	\$ 0.82	\$	0.00	0.03%	\$	0.0034	240 \$	0.82	\$	-	0.00%	\$	0.0034	240	0.82	\$	-	0.00%
Rural and Remote Rate	per kWh	s	0.0005			S	0.0005							0.0005						\$	0.0005					
Protection (RRRP)	per kvvii	3	0.0003	240	\$ 0.12	2 4	0.0003	240	\$ 0.12	\$	0.00	0.03%	٠	0.0003	240 \$	0.12	\$	-	0.00%	9	0.0003	240	0.12	\$	-	0.00%
Standard Supply Service Charge	Monthly	s	0.2500	- 1	\$ 0.25	5 8	0.6200	- 1	\$ 0.62		0.37	148.00%	s	0.6400	1 5	0.64	s	0.02	3.23%	s	0.6600	1 5	0.66	\$	0.02	3.13%
TOU - Off Peak	Monthly	Š	0.1010	151	\$ 15.23			151		6	0.57	0.00%	s	0.1010	151 \$		ŝ	0.02	0.00%	\$	0.1010	151 5		s	0.02	0.00%
TOU - Mid Peak		Š	0.1440	39				39		ŝ	_	0.00%	\$	0.1440	39 \$		ŝ	-	0.00%	\$	0.1440	39		Š	- 1	0.00%
TOU - On Peak		\$	0.2080	42			0.2080	42		\$	-	0.00%	\$	0.2080	42 \$		\$	-	0.00%	\$	0.2080	42 \$		s	-	0.00%
Energy - RPP - Tier 1		\$	0.1190	232	\$ 27.6	1 \$	0.1190	232	\$ 27.61	\$	-	0.00%	\$	0.1190	232 \$	27.61	\$	-	0.00%	\$	0.1190	232	27.61	s	-	0.00%
Energy - RPP - Tier 2		\$	0.1390	0	\$ -	\$	0.1390	0	\$ -	\$	-		\$	0.1390	0 \$	-	\$	-		\$	0.1390	0 \$	-	\$	-	
Total Bill on TOU (before Taxes	,				\$ 64.00				\$ 66.29		2.29	3.58%				68,19	s	1.90	2.87%				69.89		1.70	2.49%
HST)		13%		\$ 64.00 \$ 8.32		13%		\$ 8.62	\$	0.30	3.58%		13%	\$		\$	0.25	2.87%		13%			•	1.70 0.22	2.49%
Total Bill (including HST)			1570		\$ 72.32		1370		\$ 74.90	\$	2.59	3.58%		1370	5		Š	2.15	2.87%		1370	3		Š	1.92	2.49%
8% Provincial Rebate			31.80%		\$ 20.35		31.80%		\$ 21.08	\$	0.73	3.58%		31.80%	9		s	0.60	2.87%		31.80%	5		\$	0.54	2.49%
Total Bill on TOU (incl 8% Prov.	Pohato)				\$ 51.97		01.0070		\$ 53.82	•	1.86	3.58%		01.0070		55.37	e	1.54	2.87%		01.0070			c	1.38	2,49%
										4							4					•				
Total Bill on RPP (before Taxes)		_		\$ 62.01				\$ 64.30	\$	2.29	3.69%			\$	66.20	\$	1.90	2.96%				67.90	\$	1.70	2.57%
HST			13%		\$ 8.06		13%		\$ 8.36	\$	0.30	3.69%		13%	\$		\$	0.25	2.96%		13%	1		\$	0.22	2.57%
Total Bill (including HST)					\$ 70.07	7			\$ 72.66	\$	2.59	3.69%			\$		\$	2.15	2.96%			\$		\$	1.92	2.57%
8% Provincial Rebate			31.80%		\$ 19.72	2	31.80%		\$ 20.45	\$	0.73	3.69%		31.80%	\$		\$	0.60	2.96%		31.80%	\$		\$	0.54	2.57%
Total Bill on RPP (incl 8% Prov.	Rebate)	_			\$ 50.35	5			\$ 52.21	\$	1.86	3.69%			\$	53.75	\$	1.54	2.96%				55.13	\$	1.38	2.57%
Loss Factor (%)			3.3500%				3.3800%							3.3800%							3.3800%	1				

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

Note that the "Charge S" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS-50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS-50kW (kWh) - 00, 100, 500, 10000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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Customer Class: Residential

TOU / non-TOU: TOU

	Consumption		232	kWh (•	May 1 - Octot
			Current	Board-Ap	pro	ved
			Rate	Volume		Charge
	Charge Unit	_	(\$)			(\$)
Monthly Service Charge	Monthly	\$	27.7900	1	\$	27.79
Smart Meter Rate Adder Rate Rider Calculation for Gain and		s		232	\$	-
Rate Rider Calculation for Gain and Rate Rider Calculation for PILs	per kWh	S	-	232	S	
Rate Rider Calculation for Generic		s		232	S	1
Tate Fider Galdatatori for General	por Reen	•		1	Š	_
Distribution Volumetric Rate	per kWh	s	-	232	Š	-
Smart Meter Disposition Rider	•			232	\$	-
LRAM Rate Rider	Monthly	\$	-	232	\$	-
				232	\$	-
				232	\$	-
				232	\$	-
				232	\$	-
Deferral/Variance Account	Monthly	\$	0.8500			
Disposition Rate Rider Group 2				1	\$	0.85
				232	s	_
				232	S	-
Sub-Total A (excluding pass three	ough)			232	S	28,64
Deferral/Variance Account	per kWh	-S	0.0003		•	20.04
Disposition Rate Rider Group 1	F	_		232	-S	0.07
Deferral / Variance Accounts	per kWh	\$	-			
Balances (excluding Global Adj.) -				232	\$	-
NON-WMP						
				232	\$	-
Low Voltage Service Charge	per kWh	\$	0.00006	240	\$	0.01
Line Losses on Cost of Power		\$	0.1276	8	\$	0.99
Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$	0.57
Sub-Total B - Distribution					\$	30.15
(includes Sub-Total A) RTSR - Network	per kWh	s	0.0076	240	s	1.82
RTSR - Line and Transformation	•					
Connection	per kWh	\$	0.0052	240	\$	1.25
Sub-Total C - Delivery						
(including Sub-Total B)					\$	33.22
Wholesale Market Service	per kWh	\$	0.0034	240	s	0.82
Charge (WMSC)				240	3	0.82
Rural and Remote Rate	per kWh	\$	0.0005	240	s	0.12
Protection (RRRP)						
Standard Supply Service Charge	Monthly	\$	0.2500	1	\$	0.25
TOU - Off Peak		\$	0.1010	151	\$	15.23
TOU - Mid Peak		\$	0.1440	39	\$	5.68
TOU - On Peak		\$	0.2080	42	\$	8.69
Energy - RPP - Tier 1		\$	0.1190	232	\$	27.61
Energy - RPP - Tier 2		\$	0.1390	0	\$	-
Total Bill on TOU (before Taxes)					\$	64.00
HST		1	13%		\$	8.32
Total Bill (including HST)					\$	72.32
8% Provincial Rebate		1	31.80%		\$	20.35
Total Bill on TOU (incl 8% Prov.	Rebate)				\$	51.97
Total Bill on RPP (before Taxes)					\$	62.01
HST		1	13%		\$	8.06
Total Bill (including HST)					\$	70.07
8% Provincial Rebate		1	31.80%		\$	19.72
Total Bill on RPP (incl 8% Prov. I	Rebate)				\$	50.35

		24 Propose			L	ln	npact 2024	4 vs 2023			25 Proposi		
	Rate	Volume	•	Charge						Rate	Volume		Charge
_	(\$)			(\$)	L		Change	% Change	_	(\$)			(\$)
6	35.0300	1	\$	35.03		\$	0.99	2.91%	\$	35.6500	1	\$	35.65
		1	\$	-		\$	-				1	\$	-
5	-	232	\$	-		\$	-		\$	-	232	\$	-
5	-	232	\$	-		\$	-		\$	-	232	\$	-
3	-	232	\$	-		\$	-		\$	-	232	\$	-
		1	\$	-		\$	-				1	\$	-
6	-	232	\$	-		\$	-		\$	-	232	\$	-
		232	\$	-		\$	-				232	s	-
6	-	232	s	-		\$	-		S	-	232	\$	-
		232	\$	-		\$	-				232	\$	-
		232	s	_		s	-				232	\$	_
		232	Š	_		\$	_				232	\$	_
		232	Š			Š					232	\$	
		232	٠	-		•	-				232	a	-
á		1	s		Ι.	s	_		s		1	\$	
P	-		٠	-		٠	-		9	-	'	Ð	-
		000	_		Ш.						000		
		232	\$	-		\$	-				232	\$	-
		232	\$	-		\$	-	0.0***			232	\$	
			\$	35.03	L	\$	0.99	2.91%				\$	35.65
			_			_							
6	-	232	\$	-	1 13	\$	-		\$	-	232	\$	-
3	-	232	\$	-		\$	-		\$	-	232	\$	-
		232	\$	-		\$	-				232	\$	-
6	0.00006	240	s	0.01		s	-	0.00%	S	0.00006	240	s	0.01
5	0.1276	8	s	1.00		Ś	-	0.00%	S	0.1276	8	s	1.00
6	0.5700	1	s	0.57		ŝ	-	0.00%	S	0.5700	1	s	0.57
			s	36.61		\$	0.99					s	
								2.78%					37.23
6	0.0076	240	\$	1.82		\$	-	0.00%	\$	0.0076	240	\$	1.82
6	0.0052	240	\$	1.25		\$	-	0.00%	\$	0.0052	240	\$	1.25
_					H				_				
			\$	39.68		\$	0.99	2.56%				\$	40.30
5	0.0034	240	\$	0.82	١.	\$	_	0.00%	\$	0.0034	240	\$	0.82
		240	9	0.02		•	-	0.0070			240	٠	0.02
5	0.0005	240	s	0.12	Ш.	s		0.00%	\$	0.0005	240	s	0.12
		240	3	0.12	1 1	٠	-	0.00%			240	3	0.12
6	0.6800	1	\$	0.68		\$	0.02	3.03%	\$	0.7000	- 1	\$	0.70
3	0.1010	151	\$	15.23		\$	-	0.00%	\$	0.1010	151	\$	15.23
	0.1440	39	\$	5.68		\$	-	0.00%	\$	0.1440	39	\$	5.6
;	0.2080	42	\$	8.69		\$	-	0.00%	\$	0.2080	42	\$	8.69
6	0.1190	232	Š	27.61		\$	_	0.00%	s	0.2080	232	Š	48.2
5	0.1130	0	\$	27.01		\$		0.0076	\$	0.2000	0	\$	40.21
	0.1000	-							φ		Ů		
			\$	70.90		\$	1.01	1.45%				\$	71.5
	13%		\$	9.22		\$	0.13	1.45%		13%		\$	9.30
			\$	80.11		\$	1.14	1.45%				\$	80.84
	31.80%		\$	22.55		\$	0.32	1.45%		31.80%		\$	22.7
			s	57.57		s	0.82	1.45%				S	58.09
			\$	68.91		\$	1.01	1.49%				\$	90.2
	13%		\$	8.96		\$	0.13	1.49%		13%		\$	11.73
			\$	77.87		\$	1.14	1.49%				\$	101.92
	31.80%		\$	21.91		\$	0.32	1.49%		31.80%		\$	28.6
			s	55.95		s	0.82	1.49%				\$	73.2
	3.3800%									3.3800%			

Impact 2025 vs 2024

0.62

0.62

0.62

0.02

20.65

0.64 0.08 0.72 0.20

0.52

21.29 2.77 24.06 6.77 17.29

1.77%

0.00% 0.00% 0.00%

1.69% 0.00%

1.56%

0.00%

2.94% 0.00% 0.00% 0.00% 74.79%

0.90% 0.90% 0.90% 0.90%

0.90%

30.89% 30.89% 30.89% 30.89% 30.89%

% Change 1.77%

\$ Change 0.62

3.3500%

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In a to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Loss Factor (%)

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adju

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 12 of 56

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

Customer Class: Residential

TOU / non-TOU: TOU

Consumption 250 kWh a May 1 - October 31 O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

			Current	Board-Ap	prove	ed		20	21 Proposed		l	mpact 202	1 vs 2020		202	22 Propose	d	1 [Impact 2022	2 vs 2021		20	23 Proposed		In	pact 2023	3 vs 2022
			Rate	Volume		harge		Rate	Volume	Charge					Rate	Volume	Charge					Rate	Volume	Charge			
Manufacture Complete Channel	Charge Unit Monthly	\$	(\$) 27.7900			(\$) 27.79	S	(\$) 30.5900	1 5	(\$)	\$	Change	% Change 10.08%	S	(\$) 32.4700		(\$) \$ 32.47	s	\$ Change	% Change 6.15%		(\$) \$ 34.0400	4.0	(\$) 34.04	\$ (hange	% Change 4.84%
Monthly Service Charge Smart Meter Rate Adder	Monthly	э	27.7900		\$	27.79	2	30.5900	1 3		9	2.80	10.08%	3	32.4700		\$ 32.47	\$		0.15%	3	\$ 34.0400	1 \$	34.04	9	1.57	4.84%
Rate Rider Calculation for Gain an	oper kWh	s		250		-	s		250		s	_		s	-		\$ -	Š			9	s -	250 \$	-	s	_	
Rate Rider Calculation for PILs	per kWh	s		250	s	-	s	-	250		s	-		s	-	250	s -	s			5	B -	250 \$	-	s	-	
Rate Rider Calculation for Generic	per kWh	\$	-	250		-	\$	-	250 5	-	\$	-		\$	-	250	\$ -	\$	-		5	· \$ -	250 \$	-	\$	-	
				1	\$	-			1 5		\$	-					\$ -	\$	- 6				1 \$	-	\$	-	
Distribution Volumetric Rate	per kWh	\$	-	250		-	\$	-	250		\$	-		\$	-		\$ -	\$			5	\$ -	250 \$		\$	-	
Smart Meter Disposition Rider		_		250		-			250		\$						\$ -	\$					250 \$		\$		
LRAM Rate Rider	Monthly	\$	-	250		-	\$	0.25	1 5		\$	0.25		\$	0.25		\$ 0.25	\$		0.00%	\$	\$ -	250 \$		-\$	0.25	-100.00%
				250 250		-			250 S 250 S		\$	-					\$ - \$ -	\$ \$					250 \$ 250 \$		\$	-	
				250					250 5		9						\$ -	s					250 \$		s	- 1	
				250		-			250		s	_					s -	s					250 \$		s	_	
Deferral/Variance Account	Monthly	\$	0.8500		1					·	-						•	*	•						l Ť		
Disposition Rate Rider Group 2	-			1	\$	0.85	-\$	0.22	1 -5	0.22	-\$	1.07	-126.06%	-\$	0.22	1 -	\$ 0.22	\$	0.00	-0.95%	5	\$ -	1 \$	-	\$	0.22	-100.00%
				250		-			250		\$	-					\$ -	\$	-				250 \$	-	\$	-	
				250		-	_		250		\$						\$ - \$ 32.50	\$	-	6.15%	_		250 \$		\$. =
Sub-Total A (excluding pass the Deferral/Variance Account	per kWh	-\$	0.0003		\$	28.64	-		- 3	30.62	\$	1.98	6.91%				\$ 32.50	\$	1.88	6.15%			\$	34.04	\$	1.54	4.74%
Disposition Rate Rider Group 1	per kwn	-3	0.0003	250		0.08	-\$	0.0006	250 -	0.15	-\$	0.08	100.00%	-s	0.0006	250	-\$ 0.15	s		0.00%	9		250 \$			0.15	-100.00%
Disposition (Vale (Vide) Group 1				250		0.00	-Ψ	0.0000	230	0.15	-Ψ	0.00	100.0070	-9	0.0000	230	· 0.13	Ψ	, -	0.0070	,	, -	250 \$	-	Ψ	0.15	-100.0070
Deferral / Variance Accounts	per kWh	\$	-																								
Balances (excluding Global Adj.)				250	\$	-	\$	-	250	S -	\$	-		\$	-	250	\$ -	\$	- 8		5	\$ -	250 \$	-	\$	-	
- NON-WMP																											
		_		250					250		\$						\$ -	\$	-				250 \$		\$	-	
Low Voltage Service Charge	per kWh		0.00006	258	\$	0.02	\$	0.00006		0.02	\$	0.00	0.03%	\$	0.00006		\$ 0.02	\$		0.00%		0.00006	258 \$		\$	-	0.00%
Line Losses on Cost of Power Smart Meter Entity Charge	Monthly	\$	0.1276	8	\$ \$	1.07 0.57	\$	0.1276 0.5700	8 3	1.08	\$	0.01	0.90%	\$	0.1276 0.5700		\$ 1.08 \$ 0.57	\$	-	0.00%	5		8 \$	1.08 0.57	\$	-	0.00%
Sub-Total B - Distribution	MORENIA	Φ	0.3700				a a	0.5700	- '		3			٠	0.3700			3	, -			D.3700	1				
(includes Sub-Total A)					\$	30.22				32.13	\$	1.91	6.33%				\$ 34.01	\$	1.88	5.86%			\$	35.70	\$	1.69	4.97%
RTSR - Network	per kWh	\$	0.0076	258	\$	1.96	\$	0.0076	258	1.96	\$	0.00	0.03%	\$	0.0076	258	\$ 1.96	\$	-	0.00%	5	\$ 0.0076	258 \$	1.96	\$	-	0.00%
RTSR - Line and	per kWh	s	0.0052	258		1.34	s	0.0052	258	1.34	s	0.00	0.03%	s	0.0052	258	\$ 1.34	s		0.00%		\$ 0.0052	258 \$	1.34			0.00%
Transformation Connection	perkwii	Ф	0.0052	230	ų.	1.34	a a	0.0032	236	1.34	٠	0.00	0.0376	٩	0.0032	200	φ 1.3 4	٩	, -	0.00%	•	0.0002	236 \$	1.34	φ		0.00%
Sub-Total C - Delivery					s	33.53				35.44	s	1.91	5.71%				\$ 37.32	s	1.88	5.31%			s	39.01	s	1.69	4.53%
(including Sub-Total B) Wholesale Market Service	per kWh		0.0004		Ľ.			0.0004			_			S	0.0004			H			9				H-		
Charge (WMSC)	perkvvn	э	0.0034	258	\$	0.88	\$	0.0034	258	88.0	\$	0.00	0.03%	3	0.0034	258	\$ 0.88	\$	- 6	0.00%	3	0.0034	258 \$	0.88	\$	-	0.00%
Rural and Remote Rate	per kWh	s	0.0005				s	0.0005						s	0.0005						9	0.0005					
Protection (RRRP)	poi ittiii	~	0.0000	258	\$	0.13		0.0000	258	0.13	\$	0.00	0.03%	_	0.0000	258	\$ 0.13	\$	-	0.00%	,	0.0000	258 \$	0.13	\$	-	0.00%
	Monthly	\$	0.2500	1	\$	0.25	\$	0.6200	1 3	0.62	\$	0.37	148.00%	\$	0.6400	1	\$ 0.64	\$	0.02	3.23%	5	0.6600	1 \$	0.66	\$	0.02	3.13%
TOU - Off Peak		\$	0.1010	163		16.41	\$	0.1010		16.41	\$	-	0.00%	\$	0.1010		\$ 16.41	\$,	0.00%	5		163 \$		\$	-	0.00%
TOU - Mid Peak		\$	0.1440		\$	6.12	\$	0.1440		6.12	\$	-	0.00%	\$	0.1440		\$ 6.12	\$		0.00%	5		43 \$		\$	-	0.00%
TOU - On Peak		\$	0.2080		\$	9.36	\$	0.2080	45 5		\$	-	0.00%	\$	0.2080		\$ 9.36	\$		0.00%	5		45 \$	9.36	\$	-	0.00%
Energy - RPP - Tier 1 Energy - RPP - Tier 2		\$	0.1190	250	\$	29.75	\$	0.1190 0.1390	250 5	29.75	\$	-	0.00%	\$	0.1190 0.1390	250 0	\$ 29.75	\$	-	0.00%	\$	\$ 0.1190 \$ 0.1390	250 \$	29.75	\$	-	0.00%
		Þ	0.1390	0)	-	\$	0.1390	0 3		13			\$	0.1390	0		\$	_		3	0.1390	0 \$	-	1.9		
Total Bill on TOU (before Taxes	5)				\$	66.68	Т				\$	2.28	3.43%				\$ 70.86	\$	1.90	2.76%	Γ		\$	72.57	\$	1.71	2.41%
HST			13%		\$	8.67		13%			\$	0.30	3.43%		13%		\$ 9.21	\$	0.25	2.76%		13%	\$	9.43	\$	0.22	2.41%
Total Bill (including HST)			04.00/		\$	75.34					\$	2.58	3.43%				\$ 80.07	\$		2.76%			\$		\$	1.93	2.41%
Provincial Rebate			31.8%		\$	21.20		31.8%			\$	0.73	3.43%		31.8%		\$ 22.53	\$	0.00	2.76%		31.8%	\$	20.00	\$	0.54	2.41%
Total Bill on TOU (incl Prov. Re	bate)				\$	54.14				56.00	\$	1.85	3.43%				\$ 57.54	\$	1.54	2.76%			\$	58.93	\$	1.39	2.41%
Total Bill on RPP (before Taxes	:)				\$	64.53	T			66.82	\$	2.28	3.54%				\$ 68.72	\$	1.90	2.85%	F		\$	70.43	\$	1.71	2.49%
HST	-		13%		\$	8.39		13%		8.69	\$	0.30	3.54%		13%		\$ 8.93	\$		2.85%		13%	\$		\$	0.22	2.49%
Total Bill (including HST)					\$	72.92				75.50	\$	2.58	3.54%				\$ 77.65	\$	2.10	2.85%			\$	79.59	\$	1.93	2.49%
Provincial Rebate			31.8%		\$	20.52		31.8%		21.25	\$	0.73	3.54%		31.8%		\$ 21.85	\$	0.60	2.85%		31.8%	\$	22.40	\$	0.54	2.49%
Total Bill on RPP (incl Prov. Re	bate)				\$	52.40				54.26	\$	1.85	3.54%				\$ 55.80	\$	1.54	2.85%			\$	57.19	\$	1.39	2.49%
Loss Factor (%)			3.3500%	1				3.3800%							3.3800%						Г	3.3800%					
				•			_														-		-				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 13 of 56

		lm	pact 202	2 vs 2021			23 Propos	ed			mpact 202	3 vs 2022
9			hange	% Change		Rate	Volume		Charge		Change	% Change
.47	1	\$	1.88	% Change 6.15%	S	34.0400	1	\$	(\$) 34.04	\$	1.57	% Change 4.84%
-		\$	-	0.1070	•	01.0100	1	\$	-	\$	-	4.0470
		\$	-		\$	-	250	\$	-	\$	-	
-		\$	-		\$	-	250	\$	-	\$	-	
-		\$	-		\$	-	250	\$	-	\$	-	
-		\$ \$	-		\$		1 250	\$ \$	-	\$	- :	
-		\$	-		3	-	250 250	\$	-	\$	-	
.25		\$	-	0.00%	\$	-	250	\$	-	-\$	0.25	-100.00%
-		\$	-				250	\$	-	\$	-	
-		\$	-				250	\$	-	\$	-	
-		\$	-				250	\$	-	\$	-	
-		\$	-				250	\$	-	\$	-	
.22		\$	0.00	-0.95%	\$	-	1	\$	-	\$	0.22	-100.00%
-		\$	-				250	\$	-	\$	-	
.50		\$	1.88	6.15%			250	\$	34.04	\$	1.54	4.74%
	Ī	•		0.1.07,0				Ť		_		
.15		\$	-	0.00%	\$	-	250	\$	-	\$	0.15	-100.00%
							050					
-		\$	-		\$	-	250	\$	-	\$	-	
.02		\$	-	0.00%	\$	0.00006	250 258	\$ \$	0.02	\$	-	0.00%
.02		\$		0.00%	\$	0.1276	8	\$	1.08	\$		0.00%
.57		\$	-	0.00%	\$	0.5700	1	\$	0.57	\$	-	0.00%
.01		\$	1.88	5.86%				\$	35.70	\$	1.69	4.97%
.96		\$	-	0.00%	\$	0.0076	258	\$	1.96	\$	-	0.00%
.34		\$	-	0.00%	\$	0.0052	258	\$	1.34	\$	-	0.00%
.32		\$	1.88	5.31%				\$	39.01	\$	1.69	4.53%
.88		\$	-	0.00%	\$	0.0034	258	\$	0.88	\$	-	0.00%
.13		\$	-	0.00%	\$	0.0005	258	\$	0.13	\$	-	0.00%
.64		\$	0.02	3.23%	\$	0.6600	1	\$	0.66	\$	0.02	3.13%
.41		\$	-	0.00%	\$	0.1010	163	\$	16.41	\$	-	0.00%
.12		\$ \$	-	0.00%	\$	0.1440	43 45	\$ \$	6.12 9.36	\$	-	0.00%
.75		\$	-	0.00%	\$	0.2080	250	\$	29.75	\$	-	0.00%
-		Š	-	0.0070	s	0.1390	0	\$	-	s	-	0.0070
00		_	4.00	0.700/				•	70.57	_	4.74	2.41%
. 86 .21		\$ \$	1.90 0.25	2.76% 2.76%		13%		\$	72.57 9.43	\$ \$	1.71 0.22	2.41%
.07		\$	2.15	2.76%		1370		\$	82.01	\$	1.93	2.41%
.53		s	0.60	2.76%		31.8%		s	23.08	s	0.54	2.41%
.54		\$	1.54	2.76%				\$	58.93	\$	1.39	2.41%
.72		\$	1.90	2.85%				\$	70.43	\$	1.71	2.49%
.72		\$	0.25	2.85%		13%		\$	9.16	\$	0.22	2.49%
		\$	2.15	2.85%		1370		\$	79.59	\$	1.93	2.49%
.65												
.65 .85		\$	0.60	2.85%		31.8%		\$	22.40	\$	0.54	2.49%

Customer Class: Residential

TOU / non-TOU: TOU

Consumption 250 kWh May 1 - Octo

		=		_												_					_		
		\vdash	Rate	Board-Ap Volume	Charge	+ +	Ra		24 Propos Volume		Charge	. }	Imp	oact 2024	4 vs 2023		Rate 20	25 Propos Volume		Charge	H	mpact 202	5 VS 2024
	Charge Unit		(\$)	Volumo	(\$)		(\$		volunio	`	(\$)		\$ Ch	nange	% Change		(\$)	voidino		(\$)	\$	Change	% Change
Monthly Service Charge	Monthly	\$	27.7900	1	\$ 27.79	ī		5.0300	1	\$	35.03		\$	0.99	2.91%	9		1		35.65	\$	0.62	1.77%
Smart Meter Rate Adder				1	\$ -				1	\$	-		\$	-				1	\$	-	\$	-	
Rate Rider Calculation for Gain an		\$	-	250			\$	-	250		-		\$	-		5	-	250		-	\$	-	
Rate Rider Calculation for PILs	per kWh	\$	-	250 250			\$	-	250 250		-		\$	-		5	-	250		-	\$	-	
Rate Rider Calculation for Generic	per kvvn	\$	-	250	\$ - \$ -		\$	-	250	\$	-		\$	-		3	-	250	\$	-	\$	-	
Distribution Volumetric Rate	per kWh	s		250	\$ -		s	_	250		-		\$	-		9		250		-	S	-	
Smart Meter Disposition Rider	porkern	Ψ		250				-	250				\$	- 1		4		250		-	\$		
LRAM Rate Rider	Monthly	s		250	\$ -		s	-	250		-		\$	-		5		250		-	Š	_	
				250	\$ -				250		-		\$	-				250		-	\$	-	
				250	\$ -				250		-		\$	-				250		-	\$	-	
				250					250		-		\$	-				250		-	\$	-	
B (111)		_		250	\$ -				250	\$	-		\$	-				250	\$	-	\$	-	
Deferral/Variance Account	Monthly	\$	0.8500		\$ 0.85	.	s			s						5		1	s		s		
Disposition Rate Rider Group 2				'	\$ 0.85	'	э	-	1	3	-		\$	-		3	-		\$	-	٥	-	
				250	s -				250	5	_		\$	_				250	\$	_	s	_	
				250					250		-		Š	-				250		-	Š	_	
Sub-Total A (excluding pass the	rough)				\$ 28.64	1 1				\$	35.03		\$	0.99	2.91%				\$	35.65	\$	0.62	1.77%
Deferral/Variance Account	per kWh	-\$	0.0003			7 [
Disposition Rate Rider Group 1				250	-\$ 0.08	·	\$	-	250	\$	-		\$	-		\$	-	250	\$	-	\$	-	
Deferral / Variance Accounts	per kWh	s																					
Balances (excluding Global Adj.)	perkvvn	э	-	250	\$ -		s	_	250	s	-		\$	_		5		250	s	_	s		
- NON-WMP				250	Ψ -		Ψ	-	250	1	-		Ψ	-		4		250	9	-	,		
110.11 111				250	\$ -				250	\$	-		\$	-				250	\$	-	\$	-	
Low Voltage Service Charge	per kWh	\$	0.00006	258	\$ 0.02	:	\$ 0.0	00006	258	\$	0.02		\$	-	0.00%	5	0.00006	258	\$	0.02	\$	-	0.00%
Line Losses on Cost of Power		\$	0.1276	8	\$ 1.07			.1276	8	\$	1.08		\$	-	0.00%	\$		8		1.08	\$	-	0.00%
Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$ 0.57	1 1	\$ 0	.5700	1	\$	0.57		\$	-	0.00%	5	0.5700	1	\$	0.57	\$	-	0.00%
Sub-Total B - Distribution (includes Sub-Total A)					\$ 30.22	:				\$	36.69		\$	0.99	2.77%				\$	37.31	\$	0.62	1.69%
RTSR - Network	per kWh	ŝ	0.0076	258	\$ 1.96	. 	\$ 0	0.0076	258	\$	1.96	1	\$		0.00%	9	0.0076	258	e	1.96	s		0.00%
RTSR - Line and	•													-							1.		
Transformation Connection	per kWh	\$	0.0052	258	\$ 1.34		\$ 0	0.0052	258	\$	1.34		\$	-	0.00%	\$	0.0052	258	\$	1.34	\$	-	0.00%
Sub-Total C - Delivery					\$ 33,53	.1 [s	40.00		s	0.99	2.54%				s	40.62	s	0.62	1.55%
(including Sub-Total B)					\$ 33.53					3	40.00	.	9	0.55	2.54 /6				3	40.02	*	0.02	1.55%
Wholesale Market Service	per kWh	\$	0.0034	258	\$ 0.88		\$ 0	0.0034	258	\$	0.88		\$	_	0.00%	9	0.0034	258	\$	0.88	s	_	0.00%
Charge (WMSC)		_								Ť			*						-		1		
Rural and Remote Rate Protection (RRRP)	per kWh	\$	0.0005	258	\$ 0.13		\$ 0	0.0005	258	\$	0.13		\$	-	0.00%	9	0.0005	258	\$	0.13	\$	-	0.00%
	Monthly	\$	0.2500	- 1	\$ 0.25	.	s c	0.6800		s	0.68		\$	0.02	3.03%	5	0.7000	1	s	0.70	s	0.02	2.94%
TOU - Off Peak	wormy	\$	0.1010	163				0.1010	163		16.41		\$	0.02	0.00%	3		163		16.41	Š	0.02	0.00%
TOU - Mid Peak		\$	0.1440	43				0.1440	43		6.12		\$	-	0.00%	3		43		6.12	\$	-	0.00%
TOU - On Peak		\$	0.2080	45			\$ 0	0.2080	45		9.36		\$	-	0.00%	9	0.2080	45		9.36	\$	-	0.00%
Energy - RPP - Tier 1		\$	0.1190	250		i		0.1190	250		29.75		\$	-	0.00%	\$	0.1190	250		29.75	\$	-	0.00%
Energy - RPP - Tier 2		\$	0.1390	0	\$ -	J	\$ 0	.1390	0	\$	-		\$	-		9	-	0	\$	-	\$	-	
Total Bill on TOU (before Taxes)				\$ 66.68	7				s	73.58		\$	1.01	1,39%	-			s	74.22	s	0.64	0.87%
HST	,	1	13%		\$ 8.67			13%		s	9.57		\$	0.13	1.39%		13%		\$	9.65	s	0.04	0.87%
Total Bill (including HST)		1			\$ 75.34			- 1		\$	83.15		\$	1.14	1.39%				\$	83.87	\$	0.72	0.87%
Provincial Rebate		1	31.8%	1	\$ 21.20	1		31.8%		\$	23.40		\$	0.32	1.39%		31.8%		\$	23.60	\$	0.20	0.87%
Total Bill on TOU (incl Prov. Re	bate)				\$ 54.14					\$	59.75		\$	0.82	1.39%				\$	60.27	\$	0.52	0.87%
Total Bill on RPP (before Taxes						. 1				_				1.01	1,43%	-				72.08	s	0.64	0.90%
HST (before Taxes	,	1	13%	1	\$ 64.53 \$ 8.39			13%		\$ \$	71.44 9.29		\$ \$	0.13	1.43%		13%		\$	9.37	\$	0.64	0.90%
Total Bill (including HST)			13%		\$ 72.92			13%		\$	80.73		\$	1.14	1.43%		13%		\$	81.45	\$	0.08	0.90%
Provincial Rebate		1	31.8%		\$ 20.52			31.8%		S	22.72		S	0.32	1.43%		31.8%		S	22.92	S	0.72	0.90%
Total Bill on RPP (incl Prov. Rel	hato)		01.070		\$ 52.40			5 1.0 /0		S	58.01		\$	0.82	1,43%		31.070		S	58.53	S	0.52	0.90%
Total Dill Oll REF (Illel Plov. Ref	July				V 02.40	i i				Ť	30.01		Ě	0.02	1.45/6	-			Ů	30.33	4	0.32	0.30 /6
		Ξ		,												=		-					
Loss Factor (%)		$oxed{oxed}$	3.3500%	1		ļ	3.	3800%									3.3800%	1					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adj

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tie

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 14 of 56

Customer Class: Residential

TOU / non-TOU: TOU

Consumption 500 kWh May 1 - October 31 O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

							_						adolis filed after Oct								_				_		
			Curren Rate	t Board-Ap Volume		arge	-	Rate 20	21 Propose Volume	Charge	-	mpact 20	21 vs 2020	- 1	Rate 20	22 Propose Volume	Charge	l	Impact 202	2 vs 2021	- 1	Rate 20	023 Proposed Volume	Charge	-	mpact 20	23 vs 2022
	Charge Unit		(\$)	Volume		(\$)		(\$)	Volume	(\$)	s	Change	% Change		(\$)	Volume	(\$)	s	Change	% Change		(\$)	Volume	(\$)	s	Change	% Change
Monthly Service Charge	Monthly	\$	27.7900	1		27.79	S	30.5900	1		s	2.80	10.08%	S	32.4700	1	\$ 32.47	\$	1.88	6.15%	\$	34.0400	1 5		s	1.57	4.84%
Smart Meter Rate Adder	,			1	1 \$	- 1			1	\$ -	\$	-		-		1	\$ -	\$					1 \$	-	\$	-	
Rate Rider Calculation for Gain an		\$	-	500		-	\$	-	500		\$	-		\$	-		\$ -	\$	-		\$	-	500 \$		\$	-	
Rate Rider Calculation for PILs	per kWh	\$	-		\$	-	\$	-	500		\$	-		\$			\$ -	\$	-		\$	-	500 \$		\$	-	
Rate Rider Calculation for Generic	per kWh	\$	-	500	\$	-	\$	-	500		\$	-		\$	-		\$ -	\$	-		\$	-	500 \$		\$	-	
Distribution Malausatria Data		s		1 500	1 S	-	_		500	\$ -	\$ \$	-		s			\$ - \$ -	\$ \$	-				1 S 500 S	-	\$	-	
Distribution Volumetric Rate Smart Meter Disposition Rider	per kWh	э	-	500		-	2	-	500		s	-		3	-		\$ - \$ -	S	-		2	-	500 \$		\$ \$	-	
LRAM Rate Rider	Monthly	s		500			s	0.25	1	\$ 0.25	Š	0.25		9	0.25		\$ 0.25	Š		0.00%	s	_	500 \$		-S	0.25	-100.00%
LI ONVI I NAIG I NIGGI	Worlding	Ψ			\$	2	9	0.23	500		s	0.23		4	0.23	- 1	\$ -	s	- 1	0.0070	Ψ	-	500 \$		s	- 0.23	-100.0070
				500		-			500		š	-					š -	\$	-				500 \$		\$	-	
				500	\$	-			500	\$ -	\$	-				500	\$ -	\$	-				500 \$	-	\$	-	
				500	\$	-			500	\$ -	\$	-				500	\$ -	\$	-				500 \$	· -	\$	-	
Deferral/Variance Account	Monthly	\$	0.8500																								
Disposition Rate Rider Group 2				1	1 \$	0.85	-\$	0.22	1 -	\$ 0.22	-\$	1.07	-126.06%	-\$	0.22	1	\$ 0.22	\$	0.00	-0.95%	\$	-	1 \$	-	\$	0.22	-100.00%
				500	1 5	_			500	s -	s	_				500	s -	s	_				500 \$		s	_	
				500		-			500	\$ -	\$					500	\$ -	\$					500 \$	- 1	\$	- 1	
Sub-Total A (excluding pass thr					\$	28.64				\$ 30.62	\$	1.98	6.91%			1, 1	\$ 32.50	\$	1.88	6.15%			\$	34.04	\$	1.54	4.74%
Deferral/Variance Account	per kWh	-\$	0.0003				_						400.05-					11.	Т		-			. 7			400.0
Disposition Rate Rider Group 1				500	5 -\$	0.15	-\$	0.0006	500 -	\$ 0.30	-\$	0.15	100.00%	-\$	0.0006	500	\$ 0.30	\$	-	0.00%	\$	-	500 \$	-	\$	0.30	-100.00%
Deferral / Variance Accounts	per kWh	s																									
Balances (excluding Global Adj.)	portern	ļ *		500	s	-	s	-	500	s -	s	-		S	-	500	s -	s	-		s	-	500 \$		s	-	
- NON-WMP							1				'														1		
					\$	-			500		\$	-					\$ -	\$	-				500 \$		\$	-	
Low Voltage Service Charge	per kWh		0.00006	517		0.03		0.00006		\$ 0.03	\$	0.00	0.03%	\$			\$ 0.03	\$	-	0.00%		0.00006	517 \$		\$	-	0.00%
Line Losses on Cost of Power Smart Meter Entity Charge	Monthly	\$	0.1276	17	\$	2.14 0.57	\$	0.1276 0.5700	17	\$ 2.16 \$ 0.57	\$	0.02	0.90%	\$			\$ 2.16 \$ 0.57	\$	-	0.00%	\$		17 \$	2.16 0.57	\$	-	0.00% 0.00%
Sub-Total B - Distribution	MOHULIY	a a	0.3700				3	0.5700	-		3			9	0.3700			٠			φ	0.5700	- 15		9		
(includes Sub-Total A)					\$	31.23				\$ 33.08	\$	1.85	5.92%				\$ 34.96	\$	1.88	5.69%			s	36.80	\$	1.84	5.26%
RTSR - Network	per kWh	\$	0.0076	517	7 \$	3.93	\$	0.0076	517	\$ 3.93	\$	0.00	0.03%	\$	0.0076	517	\$ 3.93	\$	-	0.00%	\$	0.0076	517	3.93	\$	-	0.00%
RTSR - Line and Transformation Connection	per kWh	\$	0.0052	517	7 \$	2.69	\$	0.0052	517	\$ 2.69	\$	0.00	0.03%	\$	0.0052	517	\$ 2.69	\$	-	0.00%	\$	0.0052	517	2.69	\$	-	0.00%
Sub-Total C - Delivery	-										_							-							-		
(including Sub-Total B)					\$	37.84				\$ 39.69	\$	1.85	4.89%				\$ 41.57	\$	1.88	4.74%			\$	43.41	\$	1.84	4.42%
Wholesale Market Service	per kWh	\$	0.0034	517	7 S	1.76	\$	0.0034	517	\$ 1.76	s	0.00	0.03%	\$	0.0034	517	\$ 1.76	s	-	0.00%	\$	0.0034	517 8	1.76	s		0.00%
Charge (WMSC) Rural and Remote Rate	per kWh	s	0.0005		-			0.0005						9	0.0005							0.0005			'		
Protection (RRRP)	perkyvii	Ф	0.0005	517	7 \$	0.26	3	0.0005	517	\$ 0.26	\$	0.00	0.03%	3	0.0005	517	\$ 0.26	\$	-	0.00%	\$	0.0005	517	0.26	\$	-	0.00%
	Monthly	\$	0.2500	1	1 \$	0.25	\$	0.6200	1	\$ 0.62	\$	0.37	148.00%	S	0.6400	1	\$ 0.64	\$	0.02	3.23%	\$	0.6600	1 9	0.66	\$	0.02	3.13%
TOU - Off Peak		\$	0.1010			32.83	\$	0.1010		\$ 32.83	\$	-	0.00%	\$			\$ 32.83	\$	-	0.00%	\$		325 \$		\$	-	0.00%
TOU - Mid Peak		\$	0.1440		\$	12.24	\$	0.1440	-	\$ 12.24	\$	-	0.00%	\$			\$ 12.24	\$	-	0.00%	\$		85 \$		\$	-	0.00%
TOU - On Peak Energy - RPP - Tier 1		\$	0.2080	90) \$) \$	18.72 59.50	\$	0.2080 0.1190	90 500	\$ 18.72 \$ 59.50	\$	-	0.00%	\$			\$ 18.72 \$ 59.50	\$ \$	-	0.00%	\$	0.2080 0.1190	90 \$ 500 \$		\$	- 1	0.00% 0.00%
Energy - RPP - Tier 2		\$	0.1190) \$) \$	39.30	S	0.1190	0		s		0.00%	9		0		S	-	0.00%	\$	0.1190	0 8		\$		0.00%
		\$	0.1000				3	0.1000	ď					4	0.1000						Ψ	0.1000	0 0		Ů		
Total Bill on TOU (before Taxes	i)		100/			103.89	1	400/		\$ 106.11	\$	2.22	2.14%		400/		\$ 108.01	\$	1.90	1.79%		4007		109.87	\$	1.86	1.72%
HST Total Bill (including HST)			13%		\$	13.51 117.40	1	13%		\$ 13.79 \$ 119.91	\$	0.29 2.51	2.14% 2.14%		13%		\$ 14.04 \$ 122.06	\$ \$	0.25 2.15	1.79% 1.79%		13%	\$		\$	0.24 2.10	1.72% 1.72%
Provincial Rebate			31.8%		\$	33.04	1	31.8%		\$ 119.91 \$ 33.74	9	0.71	2.14%		31.8%		\$ 122.06 \$ 34.35	9	0.60	1.79%		31.8%	3		9	0.59	1.72%
Total Bill on TOU (incl Prov. Rel	hato)		31.070		•	84.36		31.0%		\$ 33.74 \$ 86.16	•	1.80	2.14%		31.0%		\$ 34.35 \$ 87.71	•	1.54	1.79%		31.0%		89.22	e	1.51	1.72%
							_																•		-		
Total Bill on RPP (before Taxes))		100/	1	\$	99.61	1			\$ 101.83	\$	2.22	2.23%		400/		\$ 103.73	\$	1.90	1.87%		4001		105.59	\$	1.86	1.79%
HST Total Bill (including HST)			13%	1	\$	12.95 112.56	1	13%		\$ 13.24 \$ 115.07	\$	0.29 2.51	2.23%		13%		\$ 13.48 \$ 117.21	\$ \$	0.25 2.15	1.87% 1.87%		13%	\$		\$	0.24 2.10	1.79% 1.79%
Provincial Rebate			31.8%			31.68	1	31.8%		\$ 115.07 \$ 32.38	0	0.71	2.23%		31.8%		\$ 117.21 \$ 32.99	3	0.60	1.87%		31.8%	9		0	0.59	1.79%
Total Bill on RPP (incl Prov. Rel	hato)		31.070		•	80.88		31.0%		\$ 32.38 \$ 82.68	•	1.80	2.23%		31.0%		\$ 32.99 \$ 84.23	•	1.54	1.87%		31.0%	3	85.74	e	1.51	1.79%
Total Bill of RFF (IIICI Flov. Rei	bate)				*	00.00				₹ 02.00	3	1.00	2.2376				y 04.23	,	1.34	1.87 %			•	05.74	3	1.51	1.75%
		_	0.0500	1			_	0.00000	-				· <u></u>	_	0.0000					_	_	0.0000				_	
Loss Factor (%)		L	3.3500%	l			ь	3.3800%						_	3.3800%							3.3800%					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000

GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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Customer Class: Residential

TOU / non-TOU: TOU

Consumption 500 kWh ® May 1 - Octobe

Part			г	Current	t Board-App	orove	ed	ſ		21	024 Propos	ed		Г	Impact 20	24 vs 2023	Г		20	025 Propose	hd			mpact 202	5 vs 2024
Second Charge Second Charg								ı				Ť			,			Rat				harge	П		
Second Charge Second Charg		Charge Unit		(S)											\$ Change	% Change		(\$					s	Change	% Change
imare Marce Race Acade Record Calculation for Game per With \$	Monthly Service Charge		\$		1	S		Ī	S		1	S								1	S				1.779
Table Post Colored Post Pos	Smart Meter Rate Adder	1			1	s	- '				1	İs	-	9	-					1	s	-	ŝ		
Table Patient Coloration of Coloration of Coloration (Coloration of Coloration (Coloration Patient)) Amount Mark Patient Coloration Patient (Coloration Patient) S	Rate Rider Calculation for Gain an	per kWh	\$	-	500		-		s	-	500	s		9	-			\$	-	500		-		-	
Table Patient Coloration of Coloration of Coloration (Coloration of Coloration (Coloration Patient)) Amount Mark Patient Coloration Patient (Coloration Patient) S	Rate Rider Calculation for PII s	per kWh	s	_	500	s	_		s	_	500	s		9				s.		500	s	-	s	_	
Dark Bulder Volumetr Rate per kVm S				_			_			_												-		_	
Part Marker Disposition Rate Part Marker Properties Part Marker Disposition Rate Part Marker Disposition Rate Part Rate Part Marker Disposition		p	1		1		_		-		1							-		1		_		_	
Second Name Name Processor Second	Distribution Volumetric Rate	ner kWh	\$	_	500		_		\$	_	500							\$		500				_	
RAM Plate Rider Monthly S		por Krrii	Ι Ψ						Ψ.									~							
Soul S		Monthly		_					•									e	_						
Soul S	LIVAWI Kate Kidei	Worlding	φ	-			-		Φ	-								Φ							
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Deferral Variance Account Deferral Variance Account							-															-			
Second S																						-		-	
	D-f10/i	Mandala		0.0500	500	٥	-				500	1 3		3	-					500	\$	-	Þ	-	
Sub-Total A (excluding pass through)		Monthly	\$	0.8500		١.						١.		١.									١.		
Solution Solution	Disposition Rate Rider Group 2				1	\$	0.85		\$	-	1	\$	-	3	5 -			\$	-	1	\$	-	\$	-	
Solution Solution																									
Sub-Total A (excluding pass through)							-															-		-	
Second color of the per kWh S 0.0003 500 S 0.15 S - 500 S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S - S -					500			- 1			500									500		-			
Seposition Rate Rider Group 1			_			\$	28.64	L				\$	35.03	\$	0.99	2.91%	_				\$	35.65	\$	0.62	1.779
Section Sect		per kWh	-\$	0.0003		١.						L		1.									1.		
Salamones (excluding Global Adj.) Sol	Disposition Rate Rider Group 1				500	-\$	0.15		\$	-	500	\$	-	3	5 -			\$	-	500	\$	-	\$	-	
Salamones (excluding Global Adj.) Sol																									
Salamones (excluding Global Adj.) Sol																									
NON-WIMP Solution		per kWh	\$	-																					
Social Charge Social Charg					500	\$	-		\$	-	500	\$		\$	-			\$	-	500	\$	-	\$	-	
Service Charge Per kWh Service Dept kWh Service Servic	- NON-WMP																								
Includes son Cost of Power S						\$	-															-		-	
Something Some	Low Voltage Service Charge	per kWh	\$	0.00006	517	\$	0.03		\$	0.00006	517	\$	0.03	9	-	0.00%		\$ 0.0	0006	517	\$	0.03		-	0.00%
Sub-Total A Distribution S 31.23 S 0.006 S 37.79 S 0.99 2.69%	Line Losses on Cost of Power		\$		17	\$			\$		17	\$								17	\$			-	0.00%
Includes Sub-Total A	Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$	0.57		\$	0.5700	1	\$	0.57	9	-	0.00%		\$ 0.	5700	1	\$	0.57	\$	-	0.00%
Includes Sub-Total A							31 23					5	37 79		990	2 69%					\$	38 41	8	0.62	1.64%
TSTS - Line and frametomation Connection per kWh \$ 0.0052 517 \$ 2.69 \$ 0.0052 517 \$ 2.69 \$ 0.0052 \$ 517 \$ 2.69 \$ 0.0052 \$ 517 \$ 0.006 \$ 0.0052 \$ 517 \$ 0.006 \$ 0.0052 \$ 517 \$ 0.006 \$ 0.0052 \$ 517 \$ 0.006 \$ 0.0052 \$ 517 \$ 0.006 \$ 0.0052 \$ 517 \$ 0.006 \$ 0.0052 \$								L																0.02	
Transformation Connection Per KWh \$ 0.0052 \$17 \$ 2.69 \$ 0.0052 \$17 \$ 2.69 \$ 0.0052 \$17 \$ 2.69 \$ 0.0056 \$ 0		per kWh	\$	0.0076	517	\$	3.93		\$	0.0076	517	\$	3.93	\$	-	0.00%		\$ 0.	0076	517	\$	3.93	\$	-	0.00%
Sample S		ner k\Mh		0.0052	517	e	2.60		e	0.0052	517	۰	2.60			0.00%		e n	20052	517	e	2.60			0.00%
S S S S S S S S S S		porkern	۳	0.0002	011	Ť	2.00		•	0.0002	011	Ť	2.00	,		0.0070		• 0.	JUUL	011	•	2.00			0.007
Section Control Cont						s	37.84					s	44.40	9	0.99	2.28%					s	45.02	s	0.62	1.40%
Str Str			١.					- 1	_			Ť		- 12			<u> </u>				-		Ľ		,
Indig (WRSC) Indi		per kWh	\$	0.0034	517	s	1.76		\$	0.0034	517	5	1 76	9		0.00%		\$ 0.	0034	517	S	1 76	8	_	0.00%
Solid Soli					0	•	1.70				011	ľ		Ι,	•	0.0070				011	•	10	1		0.007
Production (RRPP) Including (RRPP) Inclu		per kWh	\$	0.0005	517	s	0.26		\$	0.0005	517	9	0.26	9		0.00%		\$ O.	0005	517	\$	0.26	\$	_	0.00%
TOU - Off Peak S					317						317	1		- 1 "	•					317			1 -		
TOU - Mile Peak	Standard Supply Service Charge	Monthly									1									1				0.02	2.949
Columb Society Socie	TOU - Off Peak																								0.009
S	TOU - Mid Peak		\$		85	\$			\$												\$			-	
Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on TOU (before Taxes) Social Bill on RPP (before T	TOU - On Peak		\$	0.2080	90	\$	18.72		\$	0.2080			18.72			0.00%		\$ 0.	2080	90	\$	18.72	\$	-	0.009
State 10 10 10 10 10 10 10 1	Energy - RPP - Tier 1		\$	0.1190	500	\$	59.50		\$	0.1190	500	\$	59.50	9	-	0.00%		\$ 0.	2080	500	\$	104.00		44.50	74.799
HST 13% \$ 13.51 13% \$ 14.41 \$ 0.13 0.22% \$ 13.60 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0	Energy - RPP - Tier 2		\$	0.1390	0	\$	-		\$	0.1390	0	\$		9	-			\$	-	0	\$	-	\$	-	
HST 13% \$ 13.51 13% \$ 14.41 \$ 0.13 0.22% \$ 13.60 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0			\$									Ļ									_				
Total Bill (including HST) S 117.40 S 125.20 S 1.14 0.92% S 23.04 S 33.04 S)																							
Provincial Rebate 31.8% \$ 33.04 31.8% \$ 33.04 31.8% \$ 33.04 31.8% \$ 33.04 31.8% \$ 33.04 31.8% \$ 33.04 31.8% \$ 33.04 31.8% \$ 33.04				13%						13%									13%						
S S S S S S S S S S												1 .													
S 99.61 S 99.61 S 99.61 S 10.660 S 1.01 0.96%	Provincial Rebate			31.8%		\$	33.04			31.8%		\$		\$	0.32	0.92%		3	1.8%		\$	35.46	\$	0.20	0.589
S 99.61 S 99.61 S 99.61 S 10.660 S 1.01 0.96%	Total Bill on TOU (incl Prov. Re	bate)				\$	84.36					\$	90.04	\$	0.82	0.92%					\$	90.56	\$	0.52	0.589
HST 13% \$ 12.95 13.86 \$ 0.13 0.96% \$ 19.73 \$ 5.87 42.35 Total Bill (including HST) \$ 112.56 \$ 112.56 \$ 112.56 \$ 11.4 0.96% \$ 11.4 0.96% \$ 171.47 \$ 5.101 \$ 112.56 \$ 11.4 0.96% \$ 171.47 \$ 5.101 \$ 12.56 \$ 1.14 0.96% \$ 171.47 \$ 5.101 \$ 12.56 \$ 1.14 0.96% \$ 171.47 \$ 5.101 \$ 12.56 \$ 1.14 0.96% \$ 171.47 \$ 1.14 0.96% \$ 171.47 \$ 1.14 0.96% \$ 1.14 0												-					- 1						1.		
Total Bill (including HST))	1								1														
Provincial Rebate 31.8% \$ 31.88 \$ 33.90 \$ 0.32 0.96% 31.8% \$ 48.25 \$ 14.35 42.35 (otal Bill on RPP (incl Prov. Rebate) \$ 80.88 \$ 86.56 \$ 0.82 0.96%			1	13%	1					13%	1								13%						
Total Bill on RPP (incl Prov. Rebate) \$ 80.88 \$ 86.56 \$ 0.82 0.96% \$ 123.21 \$ 36.65 42.35			Ĭ									\$													
	Provincial Rebate		1	31.8%		\$	31.68			31.8%	1	\$	33.90	\$	0.32	0.96%		3	1.8%		\$	48.25	\$	14.35	42.359
.oss Factor (%) 3.3500% 3.3800% 3.3800%	Total Bill on RPP (incl Prov. Rel	bate)				\$	80.88					\$	86.56	9	0.82	0.96%					\$	123.21	\$	36.65	42.35
.oss Factor (%) 3.3500% 3.3800% 3.3800%								ı																	
oss Factor (%) 3.3800% 3.3800%			_	0.0500	1					0.0000	1						_		0000	1					
	Loss Factor (%)		_	3.3500%	l			L		3.3800%	l						_	3.3	800%						

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component c consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In ϵ to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adju-

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier

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Appendix 2-W Bill Impacts

Customer Class: Residential

TOU / non-TOU: TOU

750 kWh

May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Consumption		-	may 1 - October 3		ovember 1 - April					_													
			oard-Approve			2021 Proposed		Imp	act 2021	vs 2020			022 Proposed			Impact 202	22 vs 2021			2023 Proposed		Im	pact 202	23 vs 2022
	Charge Unit	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Cha	ngo º	% Change		Rate (\$)	Volume	Charge (\$)		Change	% Change		Rate (\$)	Volume	Charge (\$)	8.01	nange	% Change
Monthly Service Charge	Monthly	\$ 27,7900	1 5		\$ 30.5900	1.5		S	2.80	10.08%	S	32,4700	1 S	32.47	\$	1.88	6.15%	S	34.0400	1 \$		\$	1.57	4.84%
Smart Meter Rate Adder	,	,	1 5	\$ -		1 \$	-	\$	-				1 \$	-	\$	-				1 \$	-	\$	-	
Rate Rider Calculation for Gain ar		\$ -	750		\$ -	750 \$	-	\$	-		\$	-	750 \$	-	\$	-		\$	-	750 \$		\$	-	
Rate Rider Calculation for PILs Rate Rider Calculation for Generic	per kWh	\$ - \$ -	750 S		\$ - \$ -	750 \$ 750 \$		\$	-		\$	-	750 \$ 750 \$	-	\$			\$	- 1	750 \$ 750 \$		\$	-	
Rate Rider Calculation for Generic	c per kvvn	-	1 9		\$ -	/50 3		\$	-		\$	-	150 \$	- 1	9	- 1		3	-	1 \$		\$	-	
Distribution Volumetric Rate	per kWh	s -	750		s -	750		Š	-		s	-	750 \$	- 1	\$			s	-	750 \$		s	-	
Smart Meter Disposition Rider	·	·	750	\$ -		750		\$	-				750 \$	-	\$	-				750 \$		\$	-	
LRAM Rate Rider	Monthly	\$ -	750		\$ 0.25	1 \$	0.25	\$	0.25		\$	0.25	750 \$	0.25	\$	-	0.00%	\$	-	750 \$		-\$	0.25	-100.00%
			750			750 \$		\$	-				750 \$	-	\$	-				750 \$		\$	-	
			750 S			750 \$ 750 \$		\$	-				750 \$ 750 \$	- 1	\$	-				750 \$ 750 \$		\$	-	
			750 5			750 \$		s	-				750 \$	- 1	s					750 \$		s	-	
Deferral/Variance Account	Monthly	\$ 0.8500		*				1							1							1		
Disposition Rate Rider Group 2			1 5	\$ 0.85	-\$ 0.22	1 -5	0.22	-\$	1.07	-126.06%	-\$	0.22	1 -\$	0.22	\$	0.00	-0.95%	\$	-	1 \$	-	\$	0.22	-100.00%
				_																		_		
			750 S			750 \$ 750 \$	-	\$	-				750 \$ 750 \$	- 1	\$	-				750 \$ 750 \$	-	\$	-	
Sub-Total A (excluding pass th	rough)		750 5			750 \$	30.62	S	1.98	6.91%	F		750 \$	32.50	\$	1.88	6.15%			730 \$	34.04	\$	1.54	4.74%
Deferral/Variance Account	per kWh	-\$ 0.0003																		i i				
Disposition Rate Rider Group 1			750 -	\$ 0.23	-\$ 0.0006	750 -\$	0.45	-\$	0.23	100.00%	-\$	0.0006	750 -\$	0.45	\$	-	0.00%	\$	-	750 \$	-	\$	0.45	-100.00%
Deferral / Variance Accounts	per kWh																							
Balances (excluding Global Adj.)	perkvvn	-	750		s -	750 \$		s			s	_	750 \$		s	_		s	_	750 \$		s	_	
- NON-WMP			700	~	•	,,,,,		1			"		700					•		,,,,,	·	,		
			750	\$ -		750 \$		\$	-				750 \$	-	\$	-				750 \$		\$	-	
Low Voltage Service Charge	per kWh	\$ 0.00006		\$ 0.05	\$ 0.00006	775		\$	0.00	0.03%		0.00006	775 \$		\$	-	0.00%		0.00006	775 \$		\$	-	0.00%
Line Losses on Cost of Power	Monthly	\$ 0.1276 \$ 0.5700	25		\$ 0.1276 \$ 0.5700	25	3.23 0.57	\$	0.03	0.90%	\$		25 \$	3.23 0.57	\$	-	0.00%	\$	0.1276	25 \$		\$	-	0.00%
Smart Meter Entity Charge Sub-Total B - Distribution	Monthly	\$ 0.5700	1 5		\$ 0.5700	1 3		3			\$	0.5700			\$	-		\$	0.5700	1 \$		3	-	0.00%
(includes Sub-Total A)				\$ 32.24		\$	34.02	\$	1.78	5.53%			\$	35.90	\$	1.88	5.53%			\$	37.89	\$	1.99	5.54%
RTSR - Network	per kWh	\$ 0.0076	775	\$ 5.89	\$ 0.0076	775	5.89	\$	0.00	0.03%	\$	0.0076	775 \$	5.89	\$	-	0.00%	\$	0.0076	775 \$	5.89	\$	-	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0052	775	\$ 4.03	\$ 0.0052	775	4.03	\$	0.00	0.03%	\$	0.0052	775 \$	4.03	\$	-	0.00%	\$	0.0052	775 \$	4.03	\$	-	0.00%
Sub-Total C - Delivery											H													
(including Sub-Total B)				\$ 42.16			43.94	\$	1.79	4.23%			\$	45.83	\$	1.88	4.28%			\$	47.81	\$	1.99	4.34%
Wholesale Market Service	per kWh	\$ 0.0034	775	\$ 2.64	\$ 0.0034	775	2.64	s	0.00	0.03%	\$	0.0034	775 S	2.64	s	-	0.00%	\$	0.0034	775 S	2.64	s	-	0.00%
Charge (WMSC)		0.0005			6 00005			1				0.0005			1				0.0005			1		
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0005	775	\$ 0.39	\$ 0.0005	775	0.39	\$	0.00	0.03%	\$	0.0005	775 \$	0.39	\$	-	0.00%	\$	0.0005	775 \$	0.39	\$	-	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1 5	\$ 0.25	\$ 0.6200	1 8	0.62	s	0.37	148.00%	s	0.6400	1 S	0.64	s	0.02	3.23%	s	0.6600	1 \$	0.66	s	0.02	3.13%
TOU - Off Peak	,	\$ 0.1010	488		\$ 0.1010	488		\$	-	0.00%	\$		488 \$		\$	-	0.00%	\$	0.1010	488 \$		\$	-	0.00%
TOU - Mid Peak		\$ 0.1440	128		\$ 0.1440	128 \$		\$	-	0.00%	\$		128 \$		\$	-	0.00%	\$	0.1440	128 \$		\$	-	0.00%
TOU - On Peak Energy - RPP - Tier 1		\$ 0.2080 \$ 0.1190	135 600		\$ 0.2080 \$ 0.1190	135 \$ 600 \$		\$	-	0.00%	\$		135 \$ 600 \$		\$	-	0.00%	\$	0.2080	135 \$ 600 \$		\$	-	0.00%
Energy - RPP - Tier 2		\$ 0.1190	150		\$ 0.1190	150 \$		Š	-	0.00%	\$		150 S	20.85	\$		0.00%	s	0.1190	150 \$		\$	-	0.00%
		0.1000	100		ψ 0.1000	100		Ţ				0.1000	100 \$		-				0.1000	100 \$		Ť		
Total Bill on TOU (before Taxes	\$)	4001		\$ 141.11	400/		143.26	\$	2.16	1.53%		400/	\$	145.17	\$	1.90	1.33%			\$	147.18	\$	2.01	1.38%
HST Total Bill (including HST)		13%		\$ 18.34 \$ 159.45	13%		18.62 161.89	\$	0.28 2.44	1.53% 1.53%		13%	\$	18.87 164.04	\$	0.25 2.15	1.33% 1.33%		13%	\$	19.13 166.31	\$	0.26 2.27	1.38% 1.38%
Provincial Rebate		32%	1	\$ 44.87	31.8%		45.56	9	0.69	1.53%		31.8%	Š	46 16	\$	0.60	1.33%		31.8%	9	46.80	\$	0.64	1.38%
Total Bill on TOU (incl Prov. Re	bate)			\$ 114.58	01.070	9	116.33	s	1.75	1.53%		01.070	s	117.88	s	1.54	1.33%		01.070	s	119.51	s	1.63	1.38%
i i	·							-					·		Ť					·		-		
Total Bill on RPP (before Taxes HST	s)	13%		\$ 137.68 \$ 17.90	13%		139.84 18.18	\$ S	2.16 0.28	1.57% 1.57%		13%	\$	141.74 18.43	\$	1.90 0.25	1.36% 1.36%		13%	\$	143.75 18.69	\$	2.01 0.26	1.42% 1.42%
Total Bill (including HST)		13%		\$ 17.90 \$ 155.58	13%		158.02	s	2.44	1.57%		13%	s	160.17	\$	2.15	1.36%		13%	3	162.44	S	2.27	1.42%
Provincial Rebate		32%	1	\$ 43.78	31.8%		44.47	s	0.69	1.57%		31.8%	S	45.07	s	0.60	1.36%		31.8%	S	45.71	s	0.64	1.42%
Total Bill on RPP (incl Prov. Re	bate)			\$ 111.80	21.070	5	113.55	\$	1.75	1.57%		2570	S	115.09	\$	1.54	1.36%		2 5 /0	S	116.72	\$	1.63	1.42%
													Ť		Ť					Ť		T .		
Loss Factor (%)		3.3500%	Т		3.3800%	1						3.3800%							3.3800%	1				
Loss Factor (76)		3.3300%	1		3.3000%	1					<u></u>	3.3000%						<u> </u>	J.J0UU%	1				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: Residential

TOU / non-TOU: TOU

750 kWh

May 1 - October

			Current Bo	ard-Approv	od		_	-	024 Propos	nd		г	Imna	~t 20°	24 vs 2023			2025 Propos	nd			mnact 202	5 vs 2024
			Rate	Volume		harge	\vdash	Rate	Volume		Charge	H	шра		L4 V3 2023	H	Rate	Volume		harge	г	IIIpact 202	J V3 ZUZ4
	Charge Unit		(\$)			(\$)		(\$)			(\$)		\$ Chan		% Change		(\$)			(\$)		Change	% Change
Monthly Service Charge	Monthly	\$	27.7900	1	\$	27.79	\$	35.0300	1	\$	35.03	\$		0.99	2.91%	\$	35.6500	1	\$	35.65	\$	0.62	1.77%
Smart Meter Rate Adder					\$	-			1		-	1		-					\$	-	\$	-	
Rate Rider Calculation for Gain an Rate Rider Calculation for PILs	per kWh	\$	-		\$	-	\$	-	750 750		-	9		-		\$	-	750 750	\$	-	\$	-	
Rate Rider Calculation for Pills Rate Rider Calculation for Generic		\$			\$	- 1	S	-	750 750			9		-		S	- :		\$	- 1	\$	-	
Rate Rider Calculation for Generic	per kvvii	a a	-		S		٩	-	130	s s		9				٦	-		s s	-	\$		
Distribution Volumetric Rate	per kWh	s	_		\$	- 1	s	_	750		1 1	3		-		s	_		\$	-	\$		
Smart Meter Disposition Rider	por Kern	T			Š	_	•		750	s	_	3		_		-			\$	_	s	_	
LRAM Rate Rider	Monthly	\$	_		Š	-	s	-	750		- 1	3		-		s	-		\$	-	\$	-	
	1				\$	-			750	s	-	1		-					s	-	s	-	
					\$	-			750	\$	-	1		-				750	\$	-	\$	-	
					\$	-			750	\$	-	9	6	-					\$	-	\$	-	
				750	\$	-			750	\$	-	9	6	-				750	\$	-	\$	-	
Deferral/Variance Account	Monthly	\$	0.8500																				
Disposition Rate Rider Group 2				1	\$	0.85	\$	-	1	\$	-	\$	6	-		\$	-	1	\$	-	\$	-	
				750		-			750		-	1		-				750		-	\$	-	
Colo Tatal A (acceleding page 4b)	b\	-		750	\$	28.64			750	\$	35.03	9		.99	2.91%	-		750	\$	35.65	\$	0.62	1.77%
Sub-Total A (excluding pass the Deferral/Variance Account	per kWh	-\$	0.0003		Þ	28.64				Þ	35.03	1	, ,	J.99	2.91%	\vdash			Þ	33.65	Þ	0.62	1.//%
Disposition Rate Rider Group 1	per kvvii	-9	0.0003	750	-8	0.23	s	_	750	s	_	9	:	_		s		750	s	_	s	_	
Disposition ratio ration Group 1				700	•	0.20	•		700			Ι,				_		700	•		1		
Deferral / Variance Accounts	per kWh	s	-																				
Balances (excluding Global Adj.)				750	\$	-	\$	-	750	\$	-	5	3	-		\$	-	750	\$	-	\$	-	
- NON-WMP																							
					\$	-			750		-	\$		-					\$	-	\$	-	
Low Voltage Service Charge	per kWh	\$	0.00006		\$	0.05	\$	0.00006	775	\$	0.05	\$		-	0.00%	\$			\$	0.05	\$	-	0.00%
Line Losses on Cost of Power		\$	0.1276		\$	3.21	\$	0.1276	25	\$	3.23	\$		-	0.00%	\$			\$	3.23	\$	-	0.00%
Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$	0.57	\$	0.5700	1	\$	0.57	5	<u> </u>	-	0.00%	\$	0.5700	1	\$	0.57	\$		0.00%
Sub-Total B - Distribution (includes Sub-Total A)					\$	32.24				\$	38.88	\$. (0.99	2.61%				\$	39.50	\$	0.62	1.59%
RTSR - Network	per kWh	s	0.0076	775	s	5.89	\$	0.0076	775	\$	5.89	9	ì		0.00%	S	0.0076	775	s	5.89	s		0.00%
RTSR - Line and	•	\$			s					1		- 11 '									s		
Transformation Connection	per kWh	\$	0.0052	//5	\$	4.03	\$	0.0052	775	\$	4.03	3	•	-	0.00%	\$	0.0052	//5	\$	4.03	5	-	0.00%
Sub-Total C - Delivery					s	42.16				s	48.80	5	: 1	0.99	2.07%				s	49.42	s	0.62	1,27%
(including Sub-Total B)					*	42.10				Ψ	40.00	Ľ	, ,	3.33	2.07 /8				*	43.42	*	0.02	1.27 /0
Wholesale Market Service	per kWh	\$	0.0034	775	\$	2.64	\$	0.0034	775	\$	2.64	9	;	_	0.00%	\$	0.0034	775	\$	2.64	\$		0.00%
Charge (WMSC)					-					_		- 11							*		-		
Rural and Remote Rate	per kWh	\$	0.0005	775	\$	0.39	\$	0.0005	775	\$	0.39	9	3	-	0.00%	\$	0.0005	775	\$	0.39	\$	-	0.00%
Protection (RRRP)	Mandala	\$	0.0500			0.05		0.0000		s	0.00	9			0.000/		0.7000		s	0.70	s	0.02	0.040/
Standard Supply Service Charge TOU - Off Peak	Monthly	\$	0.2500 0.1010		\$ \$	0.25 49.24	\$	0.6800	1 488		0.68 49.24	3		0.02	3.03%	\$	0.7000		\$	0.70 49.24	\$	0.02	2.94% 0.00%
TOU - Mid Peak		\$	0.1440		S	18.36	\$	0.1440	128		18.36	9		Ξ.	0.00%	S		128		18.36	s		0.00%
TOU - On Peak		S	0.2080		\$	28.08	\$	0.2080	135		28.08	9		-	0.00%	S	0.2080	135		28.08	\$		0.00%
Energy - RPP - Tier 1		Š	0.1190		Š	71.40	s	0.1190	600		71.40	3		-	0.00%	s	0.1190		\$	71.40	\$	-	0.00%
Energy - RPP - Tier 2		\$	0.1390		\$	20.85	\$	0.1390	150		20.85	1		-	0.00%	\$	0.1390	150		20.85	\$	-	0.00%
					_						440.46								,	440.00		0.01	0.4607
Total Bill on TOU (before Taxes)	1	13%		\$ S	141.11	1	13%		\$	148.19	1		1.01	0.69% 0.69%		4007		\$	148.83	\$	0.64	0.43%
HST Total Bill (including HST)			13%		\$ \$	18.34 159.45	1	13%		\$	19.26 167.45	9		0.13 1.14	0.69%		13%	1	\$	19.35 168.17	\$	0.08	0.43%
Provincial Rebate		1	32%		S	44.87	1	31.8%		\$	47.12	3		0.32	0.69%		31.8%		S	47.33	\$	0.72	0.43%
	hata)		32%		S			31.6%		S							31.6%				S		
Total Bill on TOU (incl Prov. Re	uatė)	_			\$	114.58				\$	120.33	\$. (0.82	0.69%				\$	120.85	\$	0.52	0.43%
Total Bill on RPP (before Taxes)				\$	137.68	Г			\$	144.76	1	,	1.01	0.70%	Г			\$	145.40	\$	0.64	0.44%
HST	-	1	13%		\$	17.90	1	13%		\$	18.82	5	6 (0.13	0.70%	1	13%		\$	18.90	\$	0.08	0.44%
Total Bill (including HST)		1	-		\$	155.58	1			\$	163.58	3		1.14	0.70%				\$	164.30	\$	0.72	0.44%
Provincial Rebate			32%		\$	43.78	1	31.8%		\$	46.03	\$	6 (0.32	0.70%		31.8%		\$	46.24	\$	0.20	0.44%
Total Bill on RPP (incl Prov. Rel	bate)				\$	111.80	L			\$	117.54	\$	(0.82	0.70%	L			\$	118.06	\$	0.52	0.44%
Loss Factor (%)			3.3500%					3.3800%									3.3800%	1					
LOSS I ACIOI (76)		$\overline{}$	3.3300%	ļ.			_	5.3000%								_	J.3000%	4					

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component contributes consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, the to their service territory, class by class. A general guideline of consumption levels follows:

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Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 18 of 56

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020

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Appendix 2-W Bill Impacts

Customer Class: Residential

TOU / non-TOU: TOU

Consumption 1,000 kWh May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

		Curr	ent Board-Ap	proved	ī	2	2021 Propose	ed	li	mpact 202	21 vs 2020	Г	20	22 Proposed	i		Impact 202	22 vs 2021		2	023 Propose	d	In	npact 202	3 vs 2022
		Rate	Volume	Charge		Rate	Volume	Charge					Rate	Volume	Charge					Rate	Volume	Charge			
	Charge Unit	(\$)		(\$)	l ∟	(\$)		(\$)	\$ C	hange	% Change		(\$)		(\$)	\$	Change	% Change	_	(\$)		(\$)		hange	% Change
Monthly Service Charge	Monthly	\$ 27.790	1	\$ 27.79	\$	30.5900	1		\$	2.80	10.08%	\$	32.4700	1 5		\$	1.88	6.15%	\$	34.0400	1		\$	1.57	4.84%
Smart Meter Rate Adder Rate Rider Calculation for Gain an	nor kM/h		1000	\$ -			1000	\$ -	\$	-		s		1000 8		5	-		s		1000		5	-	
	per kWh	\$ -	1000		9	-	1000		6	-		S		1000 \$		0			s		1000		s	-	
Rate Rider Calculation for Generic		\$ -	1000		\$		1000		s	- 1		S		1000 \$		Š			s	- 1		s -	s	- 1	
Take The Galdada To Galda G	por Keen	*	1	š -	•			s -	s	_			•	1 5		s	_		_		1	+	s	-	
Distribution Volumetric Rate	per kWh	\$ -	1000	\$ -	\$		1000	\$ -	\$	-		S	-	1000	-	Š	-		\$	-	1000	\$ -	\$	-	
Smart Meter Disposition Rider			1000	\$ -			1000	\$ -	\$	-				1000 \$	-	\$	-				1000	\$ -	\$	-	
LRAM Rate Rider	Monthly	\$ -	1000		\$	0.25	1		\$	0.25		\$	0.25	1 9		\$	-	0.00%	\$	-	1000		-\$	0.25	-100.00%
			1000				1000		\$	-				1000 \$		\$	-				1000		\$	-	
			1000				1000		\$	-				1000 \$		\$	-				1000		\$	-	
			1000				1000		\$	-				1000 \$		\$	-				1000		\$	-	
B (194)			1000	\$ -			1000	\$ -	\$	-				1000 \$	-	\$	-				1000	\$ -	\$	-	
Deferral/Variance Account	Monthly	\$ 0.850				0.22		-\$ 0.22		4.07	400.000/	-8	0.22				0.00	-0.95%	s					0.22	-100.00%
Disposition Rate Rider Group 2			'	\$ 0.85	-\$	0.22	1	-\$ U.22	-\$	1.07	-126.06%	-3	0.22	1 -\$	0.22	\$	0.00	-0.95%	2	-	1	ъ -	\$	0.22	-100.00%
			1000	s -			1000	s -	s	_				1000 8		s	_				1000	s -	s	_	
			1000	\$ -			1000	\$ -	\$					1000 \$	-	š	-				1000	\$ -	\$		
Sub-Total A (excluding pass thr				\$ 28.64				\$ 30.62	\$	1.98	6.91%			\$	32.50	\$	1.88	6.15%				\$ 34.04	\$	1.54	4.74%
Deferral/Variance Account Disposition Rate Rider Group 1	per kWh	-\$ 0.000	1000	-\$ 0.30	-s	0.0006	1000	-\$ 0.60	-\$	0.30	100.00%	-S	0.0006	1000 -	0.60	s	_	0.00%	s		1000		s	0.60	-100.00%
Disposition Rate Rider Group 1			1000	-\$ 0.30	-3	0.0006	1000	-\$ 0.00	-\$	0.30	100.00%	-3	0.0000	1000 -3	0.00	3	-	0.00%	2	•	1000	5 -	3	0.60	-100.00%
Deferral / Variance Accounts	per kWh	s -																							
Balances (excluding Global Adj.)			1000	\$ -	\$	-	1000	\$ -	\$	-		\$	- 3	1000 \$	· -	\$	-		\$	-	1000	\$ -	\$	-	
- NON-WMP																									
			1000				1000		\$	-				1000 \$		\$	-				1000		\$	-	
	per kWh	\$ 0.0000		\$ 0.06		0.00006		\$ 0.06	\$	0.00	0.03%		0.00006	1,034		\$	-	0.00%		0.00006		\$ 0.06	\$	-	0.00%
Line Losses on Cost of Power Smart Meter Entity Charge	Monthly	\$ 0.127 \$ 0.570		\$ 4.27 \$ 0.57	\$		34		\$	0.04	0.90%	\$		34 \$		\$	-	0.00%	\$		34	\$ 4.31 \$ 0.57	\$		0.00% 0.00%
Sub-Total B - Distribution	Monthly	\$ 0.570	J 1		э	0.5700			Þ	-		٥	0.5700			3			3	0.5700			D.		
(includes Sub-Total A)				\$ 33.25				\$ 34.96	\$	1.72	5.16%			\$	36.84	\$	1.88	5.38%				\$ 38.98	\$	2.14	5.81%
RTSR - Network	per kWh	\$ 0.007	6 1034	\$ 7.85	\$	0.0076	1034	\$ 7.86	\$	0.00	0.03%	\$	0.0076	1034	7.86	\$	-	0.00%	\$	0.0076	1034	\$ 7.86	\$	-	0.00%
RTSR - Line and	per kWh	\$ 0.005	2 1034	\$ 5.37	s	0.0052	1034	\$ 5.38	s	0.00	0.03%	S	0.0052	1034	5.38	s	_	0.00%	\$	0.0052	1034	\$ 5.38	s	_	0.00%
Transformation Connection									_			_				Ľ			_				-		
Sub-Total C - Delivery (including Sub-Total B)				\$ 46.47				\$ 48.20	\$	1.72	3.70%			\$	50.08	\$	1.88	3.91%				\$ 52.22	\$	2.14	4.27%
Wholesale Market Service	per kWh	\$ 0.003	4		s	0.0034						S	0.0034			 			\$	0.0034					
Charge (WMSC)			1034	\$ 3.51			1034	\$ 3.51	\$	0.00	0.03%	1		1034	3.51	\$	-	0.00%	_		1034	\$ 3.51	\$	-	0.00%
Rural and Remote Rate	per kWh	\$ 0.000	1034	\$ 0.52	\$	0.0005	1034	\$ 0.52		0.00	0.03%	\$	0.0005	1034	0.52	s	_	0.00%	\$	0.0005	1034	\$ 0.52	s	_	0.00%
Protection (RRRP)									Ψ							"									
	Monthly	\$ 0.250		\$ 0.25	\$		1		\$	0.37	148.00%	\$		1 5		\$	0.02	3.23%	\$			\$ 0.66	\$	0.02	3.13%
TOU - Off Peak		\$ 0.101			\$		650		\$	-	0.00%	\$		650 \$		\$	-	0.00%	\$			\$ 65.65 \$ 24.48	\$	-	0.00%
TOU - Mid Peak TOU - On Peak		\$ 0.144 \$ 0.208			\$		170 180		\$	-	0.00%	\$		170 \$		\$ \$	-	0.00%	\$		170 180		\$ \$	-	0.00% 0.00%
Energy - RPP - Tier 1		\$ 0.208			\$		600		9	-	0.00%	S		600 5		S .	-	0.00%	\$		600		\$	-	0.00%
Energy - RPP - Tier 2		\$ 0.119			\$		400		s		0.00%	S		400 \$		Š	-	0.00%	S		400		\$	- 1	0.00%
		ψ 0.100	100			0.1000	400					Ě	0.1000	100					Ů	0.1000	100				
Total Bill on TOU (before Taxes)	13	v .	\$ 178.33 \$ 23.18		13%		\$ 180.42 \$ 23.45	\$	2.09	1.17% 1.17%		13%	\$	182.32	\$	1.90	1.05%		13%		\$ 184.48 \$ 23.98	\$	2.16	1.18%
Total Bill (including HST)		13	70	\$ 23.18		13%		\$ 23.45 \$ 203.87	\$	0.27 2.36	1.17%		13%	3		S .	0.25 2.15	1.05% 1.05%		13%		\$ 23.98 \$ 208.46	\$	0.28 2.44	1.18% 1.18%
Provincial Rebate		31.8	36	\$ 56.71		31.8%		\$ 57.37	•	0.67	1.17%		31.8%	5			0.60	1.05%		31.8%		\$ 58.66	•	0.69	1.18%
Total Bill on TOU (incl Prov. Rel	bate)	01.0	,,,	\$ 144.80		31.070		\$ 146.50	\$	1.70	1.17%		31.070	9		5	1.54	1.05%		31.070		\$ 149.80	s	1.75	1.18%
	,				_				-					,	140.04				=				-		
Total Bill on RPP (before Taxes))		v .	\$ 177.76		4001		\$ 179.85	\$	2.09	1.18%		4001	\$		\$	1.90	1.06%		4001		\$ 183.91	\$	2.16	1.19%
HST Total Bill (including HST)		13	70	\$ 23.11 \$ 200.86		13%		\$ 23.38 \$ 203.23	\$	0.27 2.36	1.18% 1.18%		13%	9		5	0.25 2.15	1.06% 1.06%		13%		\$ 23.91 \$ 207.82	\$ \$	0.28 2.44	1.19% 1.19%
Provincial Rebate		31.8	36	\$ 200.86 \$ 56.53		31.8%		\$ 203.23 \$ 57.19	9	0.67			31.8%	5		3	0.60	1.06%		31.8%		\$ 207.82 \$ 58.48	9	0.69	1.19%
Total Bill on RPP (incl Prov. Ret	hata)	31.0	,,,	\$ 56.53 \$ 144.34		31.6%		\$ 57.19 \$ 146.04	3	1.70	1.18%		31.6%	3	57.80 147.58	3	1.54	1.06%		31.6%		\$ 58.48 \$ 149.33	3	1.75	1.19%
Total Bill on RPP (Inci Prov. Rel	uate)			ə 144.34				ş 14b.04	3	1.70	1.16%			,	147.58	Þ	1.54	1.06%				ş 149.33	\$	1./5	1.19%
			-		_		,					_							Ξ						
Loss Factor (%)		3.3500	% I		_	3.3800%	1						3.3800%							3.3800%					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: Residential

TOU / non-TOU: TOU

Consumption 1,000 kWh ® May 1 - October

			Currer	nt Board-Ap	nrev	ned	1			2024 Propos	has	1	г	Impact 20	24 vs 2023	Г		2025 Propo	has			mpact 202	5 vs 2024
		1	Rate	Volume		Charge			Rate	Volume	l	Charge	H	impact 20.	24 V3 Z0Z3		Rate	Volume		Charge		IIIpact zoz	J V3 2024
	Charge Unit		(\$)	***************************************		(\$)			(\$)	***************************************		(\$)		\$ Change	% Change		(\$)	• 0.0	`	(\$)	s	Change	% Change
Monthly Service Charge	Monthly	\$	27.7900	1	\$	27.79	1	\$	35.0300	1	\$		9		2.91%	5	35.6500	1	1 \$	35.65	\$	0.62	1.77%
Smart Meter Rate Adder	,	1		1 1	Š			-		1			3						1 \$	-	ŝ	-	
Rate Rider Calculation for Gain an	per kWh	\$	-	1000	\$	-		\$	-	1000	\$	-	1	- 8		5	-	100	0 \$	-	\$	-	
Rate Rider Calculation for PILs	per kWh	\$	-	1000	\$	-		\$	-	1000	\$	-	9	- 8		5	-	100	0 \$	-	\$	-	
Rate Rider Calculation for Generic	per kWh	\$	-	1000	\$	-		\$	-	1000	\$	-	5	- 8		5	-	100	0 \$	-	\$	-	
				1	\$	-				1	\$	-	9	- 8					1 \$	-	\$	-	
Distribution Volumetric Rate	per kWh	\$	-	1000	\$	-		\$	-	1000	\$	-	5	- 6		5	-	100	0 \$	-	\$	-	
Smart Meter Disposition Rider				1000	\$	-				1000		-	5	- 6				100		-	\$	-	
LRAM Rate Rider	Monthly	\$	-	1000	\$	-		\$	-	1000		-	\$	- 8		5	-	100		-	\$	-	
				1000		-				1000	\$	-	\$					100		-	\$	-	
				1000	\$	-				1000	\$	-	\$					100		-	\$	-	
				1000	\$	-				1000	\$		\$					100		-	\$	-	
				1000	\$	-				1000	\$	-	\$	- 8				100	0 \$	-	\$	-	
Deferral/Variance Account	Monthly	\$	0.8500																				
Disposition Rate Rider Group 2				1	\$	0.85		\$	-	1	\$	-	\$	-		5	-		1 \$	-	\$	-	
				1000		-				1000		-	\$					100		-	\$	-	
		+		1000	\$	-				1000	\$		9			_		100			\$		
Sub-Total A (excluding pass the			0.0000		\$	28.64					\$	35.03	\$	0.99	2.91%	-			\$	35.65	\$	0.62	1.779
Deferral/Variance Account Disposition Rate Rider Group 1	per kWh	-\$	0.0003	1000		0.30		s		1000	\$		9			5		100	0 \$		s		
Disposition Rate Rider Group 1				1000	-3	0.30		Ð	-	1000	۳	-	1	-			, -	100	U Ş	- 1	P	-	
Deferral / Variance Accounts	per kWh	s																					
Balances (excluding Global Adj.)	porkern	Ψ	-	1000	s	_		s	_	1000	s	-	9			9		100	0 s	_	s	_	
NON-WMP				1000	1	-		Ψ		1000	۳	-	١,	-		,	, -	100	0 9	-	Ψ		
14014-441811				1000	\$	_				1000	s	-	9					100	0 s	_	s	_	
Low Voltage Service Charge	per kWh	\$	0.00006	1.034	Š	0.06		\$	0.00006	1.034	s		3		0.00%	9	0.00006			0.06	\$		0.009
Line Losses on Cost of Power		\$	0.1276	34	Š	4.27		S	0.1276	34	\$		3		0.00%		0.1276			4.31	ŝ		0.009
Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$	0.57		\$	0.5700	1			3		0.00%	3			1 \$	0.57	\$	-	0.00%
Sub-Total B - Distribution		T			_	33,25					s	39.97	5	0.99	2,54%				s	40.59	\$	0.62	1.55%
(includes Sub-Total A)					\$						*	39.97	3	0.99	2.54%				•	40.59	Þ	0.62	
RTSR - Network	per kWh	\$	0.0076	1034	\$	7.85		\$	0.0076	1034	\$	7.86	\$	- 8	0.00%	5	0.0076	103	4 \$	7.86	\$	-	0.00%
RTSR - Line and	per kWh	s	0.0052	1034	\$	5.37		s	0.0052	1034	s	5.38	5		0.00%		0.0052	103	4 \$	5.38	\$	_	0.00%
Transformation Connection	portern	Ψ.	0.0002	1004	Ť	0.01		•	0.0002	1004	۳	0.00	Ľ	,	0.0070	<u>_</u> `	0.0002	100		0.00	Ť		0.007
Sub-Total C - Delivery					s	46,47					s	53,21	5	0.99	1.90%				s	53.83	s	0.62	1.179
(including Sub-Total B)		١.			Ť						Ť		- 12			_			Ť		Ľ		,
Wholesale Market Service	per kWh	\$	0.0034	1034	\$	3.51		\$	0.0034	1034	s	3.51	5	s -	0.00%	5	0.0034	103	4 S	3.51	\$	-	0.00%
Charge (WMSC)					1						1								1		- 1		
Rural and Remote Rate	per kWh	\$	0.0005	1034	\$	0.52		\$	0.0005	1034	\$	0.52	5	8 -	0.00%	5	0.0005	103	4 \$	0.52	\$	-	0.009
Protection (RRRP)			0.0500										١.		0.000/					0.70			
Standard Supply Service Charge TOU - Off Peak	Monthly	\$	0.2500 0.1010	650	\$	0.25 65.65		\$	0.6800	650	\$		9		3.03% 0.00%	3	0.7000		1 \$ 0 \$	0.70 65.65	\$	0.02	2.949
		\$		170				\$	0.1010	170			9		0.00%	3				24.48	\$		0.00
ΓΟU - Mid Peak ΓΟU - On Peak		\$	0.1440	170		24.48 37.44		\$	0.1440	180			9		0.00%	9				37.44	\$	-	0.00
Energy - RPP - Tier 1		\$	0.2080	600		71.40		9	0.2080	600			9		0.00%	3				124.80	\$	53.40	74.79
Energy - RPP - Tier 2		s	0.1390	400		55.60		\$	0.1130	400			9		0.00%	3		40		124.00	-\$	55.60	-100.009
		φ	0.1390	400	3	33.00		φ	0.1390	400	ą.	33.00	-	, -	0.00%	_	-	40	U S	-	-9		
Total Bill on TOU (before Taxes	:)				\$	178.33					\$	185.49	*	1.01	0.55%				\$	186.13	\$	0.64	0.35%
HST			13%		\$	23.18			13%		\$	24.11	\$	0.13	0.55%		139	6	\$	24.20	\$	0.08	0.359
Total Bill (including HST)					\$	201.51					\$	209.60	\$	1.14	0.55%				\$	210.33	\$	0.72	0.359
Provincial Rebate			31.8%		\$	56.71			31.8%		\$	58.99	\$	0.32	0.55%		31.89	6	\$	59.19	\$	0.20	0.359
Total Bill on TOU (incl Prov. Re	bate)				\$	144.80					\$	150.62	5	0.82	0.55%				\$	151.14	\$	0.52	0.35%
Total Bill on RPP (before Taxes	,				s	177.76					\$	184.92	5	1.01	0.55%	-			s	183.36	-\$	1.56	-0.849
HST	,	1	13%	l	S	23.11			13%		\$		9		0.55%		139		\$	23.84	-\$ -\$	0.20	-0.849
Total Bill (including HST)		1	13%	l	\$	200.86			13%		\$		9		0.55%		137		s	207.19	-\$	1.76	-0.849
Provincial Rebate		1	31.8%	l	S	56.53			31.8%		\$	58.80	1	0.32	0.55%		31.89		S	58.31	-s	0.50	-0.849
Total Bill on RPP (incl Prov. Rel	hato)		31.070		S	144.34			31.0%		9	150.15		0.32	0.55%		31.67		9	148.89	-\$	1.27	-0.849
I OLAI DIII OII KEP (INCI PROV. REI	Date)				3	144.34					ð	180.15	_	0.82	0.55%				3	140.09	-3	1.27	-0.84
		Ξ														_							
Loss Factor (%)			3.3500%	l					3.3800%	1							3.38009	6					

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component co-consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In ac to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000

GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjust

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier R

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 20 of 56

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 21 of 56

Appendix 2-W Bill Impacts

Customer Class: Residential

TOU / non-TOU: TOU

1,500 kWh May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

					_																
		Current Bo	volume	Charge	Rate	2021 Propose Volume	d Charge	Impact 2	2021 vs 2020	} }	Rate 2	022 Propose Volume	d Charge	Impact 2	022 vs 2021	Rate	2023 Propo	Sed Charge	Imp	act 2023	3 vs 2022
	Charge Unit	(\$)	Volume	(\$)	(\$)	Volume	(\$)	\$ Change	% Change		(\$)	Volume	(\$)	\$ Change	% Change	(\$)	Volume	(\$)	\$ Cha	nae	% Change
Monthly Service Charge	Monthly	\$ 27.7900	1 \$	27.79	\$ 30.5900	1	\$ 30.59	\$ 2.8		t t	\$ 32.4700	1 5	32.47	\$ 1.88		\$ 34.0	100	\$ 34.04	\$	1.57	4.84%
Smart Meter Rate Adder			1 \$	-		1	\$ -	s -				1 5		\$ -			1	\$ -	\$	-	
Rate Rider Calculation for Gain Rate Rider Calculation for PILs	per kWh	\$ - \$ -	1500 \$ 1500 \$	-	\$ - \$ -	1500 1500		\$ -			\$ - \$ -	1500 S		\$ -		\$	1500		\$	-	
Rate Rider Calculation for Gene		\$ -	1500 \$	-	\$ -	1500		\$ -			\$ -	1500		\$ -		s	1500		\$	-	
			1 \$	-			\$ -	\$ -				1 5		\$ -			1	\$ -	\$	-	
Distribution Volumetric Rate	per kWh	\$ -	1500 \$	-	\$ -	1500		\$ -			\$ -	1500		\$ -		\$	1500		\$	-	
Smart Meter Disposition Rider LRAM Rate Rider	Monthly	s .	1500 \$ 1500 \$	-	\$ 0.25	1500	\$ - \$ 0.25	\$ 0.2	5		\$ 0.25	1500		\$ - \$ -	0.00%	s	1500		-\$	0.25	-100.00%
Ero Wi rato rato	monany	•	1500 \$	-	0.20	1500		\$ -	1		0.20	1500		\$ -	0.0070	•	1500		\$	-	100.0070
			1500 \$	-		1500		s -				1500		\$ -			1500		\$	-	
			1500 \$ 1500 \$	-		1500 1500		S -				1500 S		\$ - \$ -			1500		\$	-	
Deferral/Variance Account	Monthly	\$ 0.8500	1300 \$	-		1500	• -	• -				1300	-	• -			1300	• -	φ	-	
Disposition Rate Rider Group 2	,		1 \$	0.85	-\$ 0.22	1 -	\$ 0.22	-\$ 1.0	7 -126.06%	-	\$ 0.22	1 -5	0.22	\$ 0.00	-0.95%	\$. 1	\$ -	\$	0.22	-100.00%
							_											_	_		
			1500 \$ 1500 \$	-		1500 1500		\$ -				1500 S		\$ - \$ -			1500 1500		\$	-	
Sub-Total A (excluding pass	through)		\$	28.64			\$ 30.62	\$ 1.9	6.91%	† †		1300 \$		\$ 1.88	6.15%		1300	\$ 34.04	\$	1.54	4.74%
Deferral/Variance Account	per kWh	-\$ 0.0003								ĪĪ				_		_		_	_		
Disposition Rate Rider Group 1			1500 -\$	0.45	-\$ 0.0006	1500	\$ 0.90	-\$ 0.4	5 100.00%		\$ 0.0006	1500 -	0.90	\$ -	0.00%	\$	1500	\$ -	\$	0.90	-100.00%
Deferral / Variance Accounts	per kWh	\$ -																			
Balances (excluding Global Adj.)		1500 \$	-	\$ -	1500	\$ -	\$ -			\$ -	1500	Б -	\$ -		\$	1500	\$ -	\$	-	l.
- NON-WMP			1500 \$			1500	e					1500		s -			1500				l.
Low Voltage Service Charge	per kWh	\$ 0.00006	1,550 \$	0.09	\$ 0.00006		\$ 0.09	\$ 0.0	0.03%		\$ 0.00006	1,551		\$ -	0.00%	\$ 0.000		\$ 0.09	\$	-	0.00%
Line Losses on Cost of Power		\$ 0.1276	50 \$	6.41	\$ 0.1276	51	\$ 6.47	\$ 0.0			\$ 0.1276	51		\$ -	0.00%	\$ 0.12		\$ 6.47	\$	-	0.00%
Smart Meter Entity Charge Sub-Total B - Distribution	Monthly	\$ 0.5700	1 \$	0.57	\$ 0.5700	1	\$ 0.57	\$ -	0.00%	∤ ∤	\$ 0.5700	1 5	0.57	\$ -	0.00%	\$ 0.5	00 1	\$ 0.57	\$	-	0.00%
(includes Sub-Total A)			\$	35.26			\$ 36.85	\$ 1.5	4.50%	1			38.73	\$ 1.88	5.11%			\$ 41.17	\$	2.44	6.30%
RTSR - Network	per kWh	\$ 0.0076	1550 \$	11.78	\$ 0.0076	1551	\$ 11.79	\$ 0.0	0.03%	ſſ	\$ 0.0076	1551	11.79	\$ -	0.00%	\$ 0.00	176 1551	\$ 11.79	\$	-	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0052	1550 \$	8.06	\$ 0.0052	1551	\$ 8.06	\$ 0.0	0.03%		\$ 0.0052	1551	8.06	\$ -	0.00%	\$ 0.00	1551	\$ 8.06	\$	-	0.00%
Sub-Total C - Delivery							\$ 56.70	\$ 1.5	2.89%	t t			58.58	\$ 1.88	3.32%			s 61.02		2.44	4.16%
(including Sub-Total B)			\$	55.11			\$ 56.70	\$ 1.5	2.89%	1 1		:	5 58.58	\$ 1.88	3.32%			\$ 61.02	\$	2.44	4.16%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0034	1550 \$	5.27	\$ 0.0034	1551	\$ 5.27	\$ 0.0	0.03%		\$ 0.0034	1551	5.27	\$ -	0.00%	\$ 0.00	1551	\$ 5.27	\$	-	0.00%
Rural and Remote Rate	per kWh	\$ 0.0005	4550	0.70	\$ 0.0005	4554			0.000		\$ 0.0005	4554			0.0001	\$ 0.00	105		s		0.0001
Protection (RRRP)			1550 \$			1551		\$ 0.0				1551		\$ -	0.00%		1551		,	-	0.00%
Standard Supply Service Charg TOU - Off Peak	Monthly	\$ 0.2500 \$ 0.1010	1 \$ 975 \$	0.25 98.48	\$ 0.6200 \$ 0.1010	1 975	\$ 0.62 \$ 98.48	\$ 0.3	7 148.00% 0.00%		\$ 0.6400 \$ 0.1010	1 5		\$ 0.02	3.23%	\$ 0.66 \$ 0.10		\$ 0.66 \$ 98.48	\$	0.02	3.13%
TOU - Off Peak		\$ 0.1010	975 \$ 255 \$	36.72	\$ 0.1010 \$ 0.1440	975 255		s -	0.00%		\$ 0.1010 \$ 0.1440	975 255		\$ - \$ -	0.00%	\$ 0.10 \$ 0.14			\$	-	0.00%
TOU - On Peak		\$ 0.2080	270 \$	56.16	\$ 0.2080	270	\$ 56.16	\$ -	0.00%		\$ 0.2080	270	56.16	\$ -	0.00%	\$ 0.20	180 270	\$ 56.16	\$	-	0.00%
Energy - RPP - Tier 1		\$ 0.1190	600 \$	71.40	\$ 0.1190	600		\$ -	0.00%		\$ 0.1190	600		\$ -	0.00%	\$ 0.1			\$	-	0.00%
Energy - RPP - Tier 2		\$ 0.1390	900 \$	125.10	\$ 0.1390	900	\$ 125.10	\$ -	0.00%	1 4	\$ 0.1390	900	125.10	\$ -	0.00%	\$ 0.13	900	\$ 125.10	\$	-	0.00%
Total Bill on TOU (before Tax	es)		\$	252.76			\$ 254.72	\$ 1.9		ſſ				\$ 1.90				\$ 259.08	\$	2.46	0.96%
HST Total Bill (including HST)		13%	\$	32.86 285.62	13%		\$ 33.11 \$ 287.83	\$ 0.2 \$ 2.2			13%			\$ 0.25 \$ 2.15		1	3%	\$ 33.68 \$ 292.76	\$	0.32 2.78	0.96% 0.96%
Provincial Rebate		31.8%	s	80.38	31.8%		\$ 207.03 \$ 81.00	\$ 0.6			31.8%		81.61	\$ 0.60		31	.8%	\$ 292.76	s	0.78	0.96%
Total Bill on TOU (incl Prov. I	Rebate)		\$	205.24	27.070		\$ 206.83	\$ 1.5			2370			\$ 1.54		0.		\$ 210.38	\$	2.00	0.96%
Total Bill on RPP (before Tax	oe)		e	257.90			\$ 259.87	\$ 1.9		1				S 1,90				\$ 264.23	T s	2.46	0.94%
HST	,	13%	s	33.53	13%		\$ 33.78	\$ 0.2		1	13%			\$ 0.25			3%	\$ 34.35	\$	0.32	0.94%
Total Bill (including HST)			\$	291.43			\$ 293.65	\$ 2.2	2 0.76%					\$ 2.15	0.73%			\$ 298.58	\$	2.78	0.94%
Provincial Rebate		31.8%	\$	82.01	31.8%		\$ 82.64	\$ 0.6			31.8%		83.24	\$ 0.60		31	.8%	\$ 84.02	\$	0.78	0.94%
Total Bill on RPP (incl Prov. F	tebate)		\$	209.42			\$ 211.01	\$ 1.5	0.76%				212.56	\$ 1.54	0.73%			\$ 214.55	\$	2.00	0.94%
Loss Factor (%)		3.3500%	l		3.3800%	1				L	3.3800%					3.38	10%				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000

GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: Residential

TOU / non-TOU: TOU

1,500 kWh
May 1 - October

			Current Bo	ard-Approve	ed			2024 Propos	ed	1 1	mpact 20:	24 vs 2023		- 2	2025 Propose	d	- 1 1	mpact 202	25 vs 2024
			Rate	Volume	Charge		Rate	Volume	Charge					Rate	Volume	Charge			l i
	Charge Unit		(\$)		(\$)		(\$)		(\$)		Change	% Change		(\$)		(\$)		Change	% Change
Monthly Service Charge	Monthly	\$	27.7900		\$ 27	79	\$ 35.0300	1	\$ 35.03	\$	0.99	2.91%	\$	35.6500	1 :		\$	0.62	1.779
Smart Meter Rate Adder		_			\$			1	\$ -	\$	-				1 :		\$	-	
Rate Rider Calculation for Gain an		\$	-		\$		\$ -	1500	\$ -	\$	-		\$	-	1500		\$	-	
Rate Rider Calculation for PILs	per kWh	\$	-		\$		\$ -	1500	\$ -	\$	-		\$	-	1500		\$	-	
Rate Rider Calculation for Generic	per kWh	\$	-	1500			\$ -	1500	\$ -	\$	-		\$	-	1500		\$	-	
Distribution Volumetric Rate	per kWh	s			\$ \$		s -	1500	\$ - \$ -	\$	-		s		1500		\$	-	
Smart Meter Disposition Rider	perkvvn	э	-		\$ \$		\$ -	1500	Ť	s	-		э	-	1500		\$	-	
LRAM Rate Rider	Monthly	s		1500			s -	1500	\$ - \$ -	s	-		s		1500		\$		
LINAW Nate Rider	WOITHIN	a a	-		\$		3 -	1500	\$ -	s	-		Φ	-	1500		s		
					Š			1500	s -	s	- 1				1500		s	- 1	
				1500				1500	š -	s	_				1500		\$		
				1500				1500	š -	s	_				1500		ŝ		
Deferral/Variance Account	Monthly	s	0.8500		-				*							•	*		
Disposition Rate Rider Group 2	1			1	s c	85	s -	1	s -	s	-		s		1 :		s	-	
										-							'		
				1500	\$			1500	\$ -	\$	-				1500	-	\$	-	
				1500	\$			1500	\$ -	\$	-				1500		\$	-	
Sub-Total A (excluding pass the					\$ 28	64			\$ 35.03	\$	0.99	2.91%				35.65	\$	0.62	1.779
Deferral/Variance Account	per kWh	-\$	0.0003					4.00		1.									
Disposition Rate Rider Group 1				1500	-\$ 0	45	\$ -	1500	\$ -	\$	-		\$	-	1500	-	\$	-	
57 107 1 1																			
Deferral / Variance Accounts Balances (excluding Global Adj.)	per kWh	\$	-	1500	s		s -	1500	s -	s	_		s		1500		s	_	
- NON-WMP				1500	3		3 -	1500	a -	۵	-		э	-	1500	-	٥	-	
- NON-WMP				1500				1500	s -	\$	_				1500		s	_	
Low Voltage Service Charge	per kWh	s	0.00006			09	\$ 0.00006	1.551	\$ 0.09	Š	-	0.00%		0.00006	1,551		Š		0.00%
Line Losses on Cost of Power	per KVVII	S	0.1276			41	\$ 0.1276		\$ 6.47	s		0.00%	\$		51		s	- 1	0.00%
Smart Meter Entity Charge	Monthly	s	0.5700			57	\$ 0.5700	1	\$ 0.57	s	-	0.00%	ŝ	0.5700	1		Š	-	0.00%
Sub-Total B - Distribution									\$ 42.16	s	0.99	2.40%					s	0.62	1.47%
(includes Sub-Total A)					\$ 35	26			\$ 42.16	>	0.99	2.40%				42.78	•	0.62	1.4/7
RTSR - Network	per kWh	\$	0.0076	1550	\$ 11	78	\$ 0.0076	1551	\$ 11.79	\$,	0.00%	\$	0.0076	1551	11.79	\$	-	0.009
RTSR - Line and	per kWh	s	0.0052	1550	\$ 8	06	\$ 0.0052	1551	\$ 8.06	s	_	0.00%	s	0.0052	1551	8.06	s	_	0.009
Transformation Connection	per KVVII	Ψ	0.0002	1550	• .	00	9 0.0032	1551	ψ 0.00	Ÿ		0.0070	Ψ	0.0002	1551	0.00	9		0.007
Sub-Total C - Delivery					\$ 55	11			\$ 62.01	s	0.99	1.62%			l .	62.63	s	0.62	1.00%
(including Sub-Total B)									,				_				-		
Wholesale Market Service	per kWh	\$	0.0034	1550	\$ 5	27	\$ 0.0034	1551	\$ 5.27	s	-	0.00%	\$	0.0034	1551	5.27	\$	-	0.009
Charge (WMSC) Rural and Remote Rate	per kWh	s	0.0005				\$ 0.0005			-			s	0.0005			1		
Protection (RRRP)	perkvvn	э	0.0005	1550	\$ 0	78	\$ 0.0005	1551	\$ 0.78	\$	-	0.00%	э	0.0005	1551	0.78	\$	-	0.00%
Standard Supply Service Charge	Monthly	s	0.2500	- 1	\$ 0	25	\$ 0.6800	- 1	\$ 0.68	s	0.02	3.03%	\$	0.7000	1 :	0.70	s	0.02	2.949
TOU - Off Peak	WOTHIN	\$	0.1010		\$ 98		\$ 0.0000	975	\$ 98.48	Š	0.02	0.00%	\$		975		Š	0.02	0.009
TOU - Mid Peak		s	0.1440	255	\$ 36		\$ 0.1440	255	\$ 36.72	s	- 1	0.00%	\$		255		Š		0.009
TOU - On Peak		s	0.2080	270			\$ 0.2080		\$ 56.16	s	_	0.00%	s		270		s	_	0.009
Energy - RPP - Tier 1		Š	0.1190	600			\$ 0.1190	600	\$ 71.40	Š	-	0.00%	s	0.2080	600		š	53.40	74.799
Energy - RPP - Tier 2		\$	0.1390	900	\$ 125	10	\$ 0.1390	900	\$ 125.10	\$	-	0.00%	\$	-	900		-\$	125.10	-100.009
			, ,,,,,																
Total Bill on TOU (before Taxes	i)	1	,		\$ 252				\$ 260.09	\$	1.01	0.39%		40			\$	0.64	0.25%
HST			13%		\$ 32 \$ 285		13%	1	\$ 33.81 \$ 293.90	\$	0.13 1.14	0.39%		13%			\$	0.08	0.259
Total Bill (including HST) Provincial Rebate		1	31.8%		\$ 285 \$ 80		31.8%		\$ 293.90 \$ 82.71	\$	0.32	0.39%		31.8%			\$	0.72	0.259
			31.6%				31.8%							31.8%					
Total Bill on TOU (incl Prov. Re	bate)				\$ 205	24			\$ 211.20	\$	0.82	0.39%				211.71	\$	0.52	0.25
Total Bill on RPP (before Taxes	:)				\$ 257	90			\$ 265,24	s	1.01	0.38%				194.18	-\$	71.06	-26.79
HST (Sciolo Taxos	•	1	13%		\$ 33		13%		\$ 34.48	s	0.13	0.38%		13%			-s	9.24	-26.799
Total Bill (including HST)					\$ 291				\$ 299.72	\$	1.14	0.38%					-\$	80.30	-26.799
Provincial Rebate		1	31.8%		S 82		31.8%		\$ 84.35	s	0.32	0.38%		31.8%			-s	22.60	-26.799
	hate)				\$ 209		21.070		\$ 215.37	s	0.82	0.38%		2570			-S	57.70	-26,79%
Total Bill on RPP (incl Prov. Re	buttoj																		
Loss Factor (%)	batoj		3.3500%				3.3800%							3.3800%					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component contributes consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, the to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000

GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 23 of 56

Appendix 2-W Bill Impacts

Customer Class: Residential

TOU / non-TOU: TOU

2,000 kWh
May 1 - October 31 Consumption O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

Raine Rode Calculation for Generic Park Williams of Calculation for Generic Pa			Comment D				0004 D		lean and	2024 2020	· -	•	000 0	1	leave a	-4 2022 2024			2022 D		l	
Charge Counts Charge Count							Volume		Impact	2021 VS 2020	1 +				Impa	ct 2022 VS 2021	1 -				Impac	2023 VS 2022
Simultation from from from from from from from from			(\$)			(\$)		(\$)	\$ Change			(\$)		(\$)	\$ Chai			(\$)			\$ Chan	e % Change
Second control from the control of		Monthly	\$ 27.7900	1	\$ 27.79	\$ 30.5900	1	\$ 30.59	\$ 2.8	10.08%		\$ 32.4700		32.47	\$	1.88 6.159	\$	34.0400	1 3	34.04	\$ 1	57 4.84%
Rate Risker disclaration for Tile. et With S		vner kWh	¢ .	2000	\$ -	٠ .	2000	\$ -	\$ -			e .			\$	-	e		2000	5 -	\$	
Company of the Comp	Rate Rider Calculation for PILs		\$ -			s -		\$ -	<u> </u>			\$ -			-	-	Š			\$ -	T .	
Descriptions From Marking Plant Plan	Rate Rider Calculation for Generic	per kWh	\$ -	2000	\$ -	\$ -	2000	\$ -	\$ -			\$ -	2000 \$	-	\$	-	\$	-	2000	\$ -	\$	
Signate Mater Department Production Producti				1					7					-	-	-			1 :	\$ -	T .	
Lift And Fine Richer Monthly		per kWh	\$ -			\$ -			\$ -			\$ -		-	-	-	\$	-		5 -	T .	
Defended Principle 1		Monthly	s .			\$ 0.25			\$ 0.2	5		\$ 0.25		0.25	Ψ.							25 -100 00%
Deferred Principle Section Sec	El d'un reaco reaco	monuny	•			0.20				~		0.20				-				š -		
Defensive Processor Proces														-	-	-				\$ -		
Default Minima Accounts (page 18 per With 18 0.050									7					-	-	-				5 -	T .	
Pilepoliton Fales Ridor Group Pilepoliton Fales Ridor Grou	Deferral/Variance Account	Monthly	\$ 0.8500		> -		2000	\$ -	\$ -				2000 \$	-	\$	-			2000	· -	3	
Substitution Subs	Disposition Rate Rider Group 2	Widitally	Ψ 0.0000		\$ 0.85	-\$ 0.22	1	\$ 0.22	-\$ 1.0	7 -126.06%		\$ 0.22	1 -\$	0.22	\$	0.00 -0.959	5		1 :	š -	\$ 0	22 -100.00%
Substitution Subs																						
Sear-Total Accordance passes treveryshy Search Sear								\$ -	\$ -					-	\$	-				-	\$	•
Deferral Variance Accounts Deferral Varia	Sub-Total A (excluding pass the	rough)		2000			2000	\$ 30.62	\$ 1.9	B 6.91%	1 -			32.50	\$	1.88 6.15			2000	\$ 34.04	\$ 1	54 4.74%
Definal Variance Accounts Definal Particularly (included Age) De	Deferral/Variance Account		-\$ 0.0003																			
Bilances (excluding Cickard Ag) 200 S - 200 S - 200 S - 200 S - 20	Disposition Rate Rider Group 1			2000 -	\$ 0.60	-\$ 0.00060	2000	-\$ 1.20	-\$ 0.6	100.00%	-	\$ 0.00060	2000 -\$	1.20	\$	- 0.009	\$	-	2000	\$ -	\$ 1	20 -100.00%
Bilances (excluding Cickard Ag) 200 S - 200 S - 200 S - 200 S - 20																						
NON-WIND S	Deferral / Variance Accounts	per kWh	\$ -																			
Low Vollage Service Charge per kWh \$ 0.00006 2.007 \$ 0.12 \$ 0.00006 2.008 \$ 0.12 \$ 0.00006 2.00006 2.00006 2.0				2000	\$ -	\$ -	2000	\$ -	\$ -			\$ -	2000 \$	-	\$	-	\$	-	2000	\$ -	\$	
Low Voltage Service Charge per kWh S 0,0000 2,067 \$ 0.12 \$ 0.0000 2,068 \$ 0.12 \$ 0.0000 2,068 \$ 0.12 \$ 0.0000 2,068 \$ 0.12 \$ 0.0000 2,068 \$ 0.12 \$ 0.0000 2,068 \$ 0.12 \$ 0.0000 2,068 \$ 0.12 \$ 0.0000 2,068 \$ 0.127 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.00000 \$ 0.000000 \$ 0.000000 \$ 0.0000000000	- NON-WMP			2000			2000						2000 €						2000			
Line Losses on Cost of Provem S	Low Voltage Service Charge	ner kWh	\$ 0,00006			\$ 0,00006			\$ 0.0	0.03%		\$ 0,00006		0.12	s			0.00006			Š	0.00%
Sub-Total A Sub-Total A	Line Losses on Cost of Power		\$ 0.1276		\$ 8.55	\$ 0.1276		\$ 8.62		B 0.90%		\$ 0.1276		8.62	\$	- 0.009	\$	0.1276		8.62	\$	0.00%
Includes Sub-Total A S 31/26 S 51/27 S 0.0076 2668 S 1.75 S 0.0076 2668 S 0.0076 2668 S 0.0076 2668 S 0.0076 2668 S 0.0076 2668 S 0		Monthly	\$ 0.5700	1	\$ 0.57	\$ 0.5700	1	\$ 0.57	\$ -	0.00%	4 L	\$ 0.5700	1 \$	0.57	\$	- 0.009	\$	0.5700	1 :	0.57	\$	0.00%
RTSR-Line and Transformation Connection per kWh \$ 0.0052 2067 \$ 10.75 \$ 0.0052 2068 \$ 10.75 \$ 0.00 0.03% \$ 0.0052 2068 \$ 10.75 \$ 0.0052 2068 \$ 10.75 \$ 0.0052 2068 \$ 10.75 \$ 0.0052 2068 \$ 10.75 \$ 0.0054 2068 \$ 0.0054	Sub-Total B - Distribution (includes Sub-Total A)				\$ 37.28			\$ 38.74	\$ 1.4	6 3.90%	1		\$	40.62	\$	1.88 4.869	-			\$ 43.36	\$ 2	74 6.74%
Transformation Connection Per KWh S 0.0002 2067 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 2068 S 10.75 S 0.0002 S	RTSR - Network	per kWh	\$ 0.0076	2067	\$ 15.71	\$ 0.0076	2068	\$ 15.71	\$ 0.0	0.03%		\$ 0.0076	2068 \$	15.71	\$	- 0.009	\$	0.0076	2068	\$ 15.71	\$	0.00%
Sub-Total C - Delivery (Including Sub-Total B)		per kWh	\$ 0.0052	2067	\$ 10.75	\$ 0.0052	2068	\$ 10.75	\$ 0.0	0.03%		\$ 0.0052	2068 \$	10.75	\$	- 0.009	5	0.0052	2068	10.75	s	0.00%
											1 -						1 -					
Charge (WMSC) Ruria and Remote Rate por kWh \$ 0.0005 \$ 0.005 \$ 0.0005 \$	(including Sub-Total B)			1	\$ 63.74			\$ 65.20	\$ 1.4	6 2.29%	1		\$	67.08	\$	1.88 2.899				69.82	\$ 2	74 4.08%
Rural and Remote Rate per kWh \$ 0.0005 206 \$ 1.03 \$ 0.0005 2068 \$ 1.03 \$ 0.000 0.03% \$ 0.0005 2068 \$ 1.03 \$ 0.000 0.03% \$ 0.0005 2068 \$ 1.03 \$ 0.0005 2068 \$	Wholesale Market Service	per kWh	\$ 0.0034	2067	\$ 7.03	\$ 0.0034	2068	\$ 7.03	\$ 0.0	0.03%		\$ 0.0034	2068 \$	7.03	\$	- 0.009	\$	0.0034	2068	7.03	\$	0.00%
Protection (RRRP) 1.03 1.0		per kWh	\$ 0,0005			\$ 0,0005						\$ 0,0005					s	0.0005				
TOU- Mid Peak \$ 0.1010 1300 \$ 131.30 \$ 0.1010 1300 \$ 131.30 \$ 0 \$ 0.1010 1300 \$ 131.30 \$ 0 \$ - 0.00% 5 0.1010 1300 \$ 131.30 \$ \$ - 0.00% 5 0.100 \$ - 0.00% 5 0.	Protection (RRRP)			2067	\$ 1.03		2068						2068 \$	1.03	7				2068	\$ 1.03	\$	
TOU- On Peak \$ 0.1440 340 \$ 48.96 \$ 0.1440 340 \$ 48.96 \$ 0.00% \$ 0.1440 340 \$ 48.96 \$ 0.00% \$ 0.1440 340 \$ 48.96 \$ 0.00% \$ 0.0		Monthly																	1 1			
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Energy - RPP - Tier 1 \$ 0.1190 600 \$ 71.40 \$ 0.1190 600 \$ 71.40 \$ 0.1190 600 \$ 71.40 \$ 0.00% \$ 0.1190 600 \$ 71.40 \$ 0.00% \$ 0.00% \$ 0.1190 600 \$ 71.40 \$ 0.00% \$ 0.00% \$ 0.1190 600 \$ 71.40 \$ 0.00% \$ 0.00% \$ 0.1190 600 \$ 71.40 \$ 0.00% \$ 0.00% \$ 0.1190 600 \$ 71.40 \$ 0.00% \$ 0.00% \$ 0.1190 600 \$ 71.40 \$ 0.00% \$ 0									7												T .	
Total Bill on TOU (before Taxes) S 327.19 S 329.03 S 1.84 0.56% HST 13% S 42.53 13% S 42.77 S 0.24 0.56% HST 13% S 327.19 S 329.03 S 1.84 0.56% HST 13% S 327.19 S 329.03 S 1.84 0.56% HST 13% S 327.19 S 329.03 S 1.84 0.56% HST 13% S 329.03 S 1.90 0.58% HST 13% S 329.03 S 1.90 0.58% HST 13% S 31.8% S 31.8% S 31.8% HST 13% S 31.8% S 31.8% S 31.8% HST 13% S 33.85 S 25.58 HST 13% S 33.85 S 25.58 HST 13% S 33.85 S 25.58 HST 13% S 33.85 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 338.65 S 339.89 S 1.84 0.56% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST 13% S 344.55 S 2.76 0.81% HST									\$ -												s	
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HST 13% \$ 42.53 13% \$ 42.77 \$ 0.24 0.56% 13% \$ \$ 43.02 \$ 0.25 0.58% 13% \$ 34.38 \$ 0.36 0.83% 13% \$ 3.88 \$ 0.56% 13% \$ 3.18% \$ 104.65 31.8% \$ 104.65 5.058 0.56% 13% \$ 3.18% \$ 105.23 5.060 0.56% 13% \$ 3.18% \$ 105.23 5.060 0.56% 13% \$ 3.18% \$ 105.23 5.060 0.56% 13% \$ 3.18% \$ 105.21 5.06% 13% \$ 3.18% \$ 105.21 5.06% 13% \$ 3.18% \$ 105.21 5.06% 13% \$ 3.18% \$ 105.21 5.06% 13% \$ 3.18% \$ 106.11 5.088 0.83% 106.11 5.088 5.088 0.83% 106.11 5.088 5.088 0.83% 106.11 5.088 5.0	Total Bill on TOU (before Taxes	3)			\$ 327.19			\$ 329.03	\$ 1.8	4 0.56%	l f		\$	330.93	\$	1.90 0.589				333.69	\$ 2	76 0.83%
Provincial Rebate 31.8% \$ 104.65 31.8% \$ 104.65 \$ 0.58 \$ 0.59 \$ 0.59% \$ 1.8% \$ 106.23 \$ 0.60 0.58% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 105.23 \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.56% \$ 0.60 0.66% \$ 0.	HST		13%		\$ 42.53	13%		\$ 42.77	\$ 0.2	4 0.56%	1	13%		43.02	\$	0.25 0.589	6	13%			\$ 0	36 0.83%
Total Bill on TOU (incl Prov. Rebate) \$ 265.68			04.00/			04					1	04.57	\$		-			04.55				
Total Bill on RPP (incl Prov. Rebate) \$ 338.05 \$ 338		hata)	31.8%	2		31.8%						31.8%	\$					31.8%				
HST 13% \$ 43.95 13% \$ 44.19 \$ 0.24 0.54% \$ 382.00 \$ \$ 384.07 \$ 2.07 0.54% \$ 386.22 \$ 2.15 0.56% \$ 389.34 \$ 3.12 0.81% \$ 70tal Bill on RPP (incl Prov. Rebate) \$ 274.50 \$ \$ 275.99 \$ 1.49 0.54%											1		3								1.	
Total Bill on RPP (incl Prov. Rebate) \$ 382.00 \$ 38.80 \$ \$ 38.4.07 \$ \$ 2.07 \$ 0.54% \$ \$ 386.22 \$ \$ 2.15 \$ 0.56% \$ \$ 389.34 \$ \$ 3.12 \$ 0.81% \$ 70.50 \$ \$ 107.50 \$ \$ 1.8% \$ \$ 108.08 \$ 0.58 \$ 0.54% \$ 108.69 \$ \$ 0.60 \$ 0.56% \$ \$ 1.8% \$ \$ 108.69 \$ \$ 0.60 \$ 0.56% \$ \$ 1.8% \$ 108.69 \$ \$ 1.8% \$ 1.8% \$ 108.69 \$ \$ 1.8% \$ 1.8% \$ 108.69 \$ \$ 1.8% \$:)	420/			420/					1	420/	\$					420/				
Provincial Rebate 31.8% \$ 107.50 31.8% \$ 108.08 \$ 0.58 0.54% 31.8% \$ 108.69 \$ 0.60 0.56% 31.8% \$ 109.57 \$ 0.88 0.81% Total Bill on RPP (incl Prov. Rebate) \$ 274.50 \$ 275.99 \$ 1.49 0.54% \$ 277.53 \$ 1.54 0.56% \$ 279.77 \$ 2.24 0.81%			13%			13%	1					13%	T .					13%				
Total Bill on RPP (incl Prov. Rebate) \$ 274.50 \$ \$ 275.99 \$ 1.49 0.54% \$ \$ 277.53 \$ 1.54 0.56% \$ \$ 279.77 \$ 2.24 0.81%			31.8%	,		31.8%						31.8%	s					31.8%				
Loss Factor (%) 3.3500% 3.3800% 3.3800%	Total Bill on RPP (incl Prov. Re	bate)			\$ 274.50			\$ 275.99	\$ 1.4	9 0.54%	<u>l</u>		\$	277.53	\$:	\$ 279.77	\$ 2	24 0.81%
Loss Factor (%) 3.3500% 3.3800% 3.3800%																						
	Loss Factor (%)		3.3500%			3.3800%						3.3800%						3.3800%	I			

to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000...

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: Residential

TOU / non-TOU: TOU

Consumption 2,000 kWh May 1 - October

			Current Bo	ard-Approv	ed	
	Charge Unit		Rate (\$)	Volume		Charge (\$)
Monthly Service Charge Smart Meter Rate Adder	Monthly	\$	27.7900	1	\$	27.79
Rate Rider Calculation for Gain an	rner kWh	s		2000		- :
Rate Rider Calculation for PILs	per kWh	s	_	2000	\$	
Rate Rider Calculation for Generic		\$	-	2000	\$	-
				1	\$	-
Distribution Volumetric Rate	per kWh	\$	-	2000	\$	-
Smart Meter Disposition Rider				2000	\$	-
LRAM Rate Rider	Monthly	\$	-	2000	\$	-
				2000	\$	-
				2000	\$	-
				2000	\$	-
54 104 : 4 4			0.0500	2000	\$	-
Deferral/Variance Account Disposition Rate Rider Group 2	Monthly	\$	0.8500	1	\$	0.85
				2000	\$	
				2000	\$	
Sub-Total A (excluding pass thr	onap)			2000	\$	28.64
Deferral/Variance Account	per kWh	-\$	0.0003		*	20.04
Disposition Rate Rider Group 1	,	*	0.0000	2000	-\$	0.60
					•	
Deferral / Variance Accounts	per kWh	s	_			
Balances (excluding Global Adj.)	por arra	Ψ.		2000	\$	
- NON-WMP				2000	Ψ.	
				2000	\$	-
Low Voltage Service Charge	per kWh	\$	0.00006	2,067	\$	0.12
Line Losses on Cost of Power		\$	0.1276	67	\$	8.55
Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$	0.57
Sub-Total B - Distribution					\$	37.28
(includes Sub-Total A)						
RTSR - Network	per kWh	\$	0.0076	2067	\$	15.71
RTSR - Line and Transformation Connection	per kWh	\$	0.0052	2067	\$	10.75
Sub-Total C - Delivery						
(including Sub-Total B)					\$	63.74
Wholesale Market Service	per kWh	\$	0.0034		_	
Charge (WMSC)		-	0.0001	2067	\$	7.03
Rural and Remote Rate	per kWh	\$	0.0005	0007		4.00
Protection (RRRP)				2067	\$	1.03
	Monthly	\$	0.2500	1	\$	0.25
TOU - Off Peak		\$	0.1010	1300	\$	131.30
TOU - Mid Peak		\$	0.1440	340	\$	48.96
TOU - On Peak		\$	0.2080	360	\$	74.88
Energy - RPP - Tier 1		\$	0.1190	600	\$	71.40
Energy - RPP - Tier 2		\$	0.1390	1400	\$	194.60
Total Bill on TOU (before Taxes	1				\$	327.19
HST		1	13%		\$	42.53
Total Bill (including HST)		1	.070		\$	369.72
			31.8%		\$	104.05
Provincial Rebate					\$	265.68
Provincial Rebate Total Bill on TOU (incl Prov. Ret	oate)					
	,				\$	338.05
Total Bill on TOU (incl Prov. Rel	,		13%		\$ \$	338.05 43.95
Total Bill on TOU (incl Prov. Rel	,		13%			
Total Bill on TOU (incl Prov. Ret Total Bill on RPP (before Taxes) HST	,		13% 31.8%		\$	43.95

	2	024 Propos	ed				mpact 20	24 vs 2023
	Rate	Volume	-	Charge		_	inpuot 20	
	(\$)			(\$)		\$	Change	% Change
\$	35.0300	1	\$	35.03		\$	0.99	2.91%
		1	\$	-		\$	-	
\$	-	2000	\$	-		\$	-	
\$	-	2000	\$	-		\$		
\$	-	2000	\$	-		\$	-	
		1	\$	-		\$		
\$	-	2000	\$	-		\$	-	
		2000	\$	-		\$	-	
\$	-	2000	\$	-		\$	-	
		2000 2000	\$	-		\$	-	
		2000	\$	-		\$	-	
		2000	\$	-		S	-	
		2000	Ф	-		9	-	
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		2000	\$			\$	-	
		2000	\$			\$	-	
			\$	35.03		\$	0.99	2.91%
\$	-	2000	\$	-		\$		
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\$	-	2000	\$	-		\$	-	
		0000	_			_		
	0.00006	2000	\$			\$	-	0.00%
\$ \$	0.00006	2,068 68	\$	0.12 8.62		\$	-	0.00%
\$	0.1276	1	\$			\$	-	0.00%
9	0.5700			0.57				
			\$	44.35		\$	0.99	2.28%
\$	0.0076	2068	\$	15.71		\$	-	0.00%
\$	0.0052	2068	\$	10.75		\$	-	0.00%
			\$	70.81		\$	0.99	1.42%
\$	0.0034	2068	s	7.03		s		0.00%
		2068	٥	7.03		3	-	0.00%
\$	0.0005	2068	s	1.03		s		0.00%
							-	
\$	0.6800	1	\$	0.68		\$	0.02	3.03%
\$	0.1010	1300	\$	131.30		\$	-	0.00%
\$	0.1440	340	\$	48.96		\$	-	0.00%
\$	0.2080	360	\$	74.88		\$	-	0.00%
\$	0.1190	600	\$	71.40		\$	-	0.00%
\$	0.1390	1400	\$	194.60	_	\$	_	0.00%
			\$	334.70		\$	1.01	0.30%
	13%		\$	43.51		\$	0.13	0.30%
			\$	378.21		\$	1.14	0.30%
	31.8%		\$	106.43		\$	0.32	0.30%
			\$	271.77		\$	0.82	0.30%
						•		
	4000		\$	345.56		\$	1.01	0.29%
	13%		\$	44.92		\$	0.13	0.29%
	04.000		\$	390.48		\$	1.14	0.29%
	31.8%		\$	109.89		\$	0.32	0.29%
			\$	280.59		\$	0.82	0.29%
	3.3800%							
_								

Rate (\$) 35.6500	Volume 1 1 2000 2000 2000 1 2000 2000 2000 2	999999999999	Charge (\$) 35.65 - - - - - - - - -	=	\$ \$ \$ \$ \$	0.62 - - -	% Cha 1
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		\$	44.97		\$	0.62	1
0.0076	2068	\$	15.71		\$	-	(
0.0052	2068	\$	10.75		\$	-	(
		\$	71.43		\$	0.62	C
0.0034	2068	\$	7.03		\$	-	(
0.0005	2068	\$	1.03		\$	-	0
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						3.02	ć
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-	1400	\$			-\$	194.60	-100
		s	335.34	Ħ	\$	0,64	
13%		s	43.59		ŝ	0.08	Ċ
		\$	378.93		\$	0.72	Č
31.8%		s			\$		Č
2270		\$	272.29		\$	0.52	Ċ
		s	205.00		-\$	140.56	-40
13%							-40
1070							-40
31.8%							-40
31.070							-40
	0.0034 0.0005 0.7000 0.1010 0.1440 0.2080 0.2080	- 2000 2,000 2,000 2,008 2,068 0,1276 68 0,5700 1 0,0076 2068 0,0052 2068 0,0005 2068 0,0005 1 1396 1396 1396	- 2000 \$ 0.00006 2,088 \$ 0.00006 2,088 \$ 0.1275 88 \$ 0.0076 2068 \$ 0.0052 2068 \$ \$ 0.0052 2068 \$ \$ 0.0052 2068 \$ \$ 0.0052 2068 \$ \$ 0.0052 2068 \$ \$ 1386 \$ \$ 1386 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 2000 \$. 2000 \$	- 2000 \$ -	- 2000 \$ - \$ - 2000 \$ - \$ 0.00006 2,068 \$ 0.12 \$ 0.1276 68 \$ 0.57 \$ 0.1276 68 \$ 8.62 \$ 0.5700 \$ \$ 15.71 \$ 0.0076 2068 \$ 15.71 \$ 0.0052 2068 \$ 10.75 \$ \$ 71.43 \$ 0.0034 2068 \$ 7.03 \$ 0.0005 2068 \$ 1.03 \$ 0.7000 1 \$ 0.70 \$ 0.1010 1000 \$ 131.30 \$ 0.7000 1 \$ 0.70 \$ 0.1010 1000 \$ 131.30 \$ 0.2080 360 \$ 74.88 \$ 0.2080 360 \$ 74.88 \$ 0.2080 360 \$ 74.88 \$ 0.2080 360 \$ 74.89 \$ 13% \$ 335.34 \$ 13% \$ 378.93 \$ 31.8% \$ 106.64 \$ \$ 272.29 \$ 13% \$ 205.00 \$ 1	- 2000 \$ - \$ - \$ - \$ - \$ - \$ 0.0000 \$ - \$

to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Loss Factor (%)

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates

3.3500%

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Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 25 of 56

Appendix 2-W Bill Impacts

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

1,000 kWh
May 1 - October 31 Overmber 1 - April 30 (Select this radio button for applications filed after Oct 31)

										_													
		Current Bo Rate	ard-Approved Volume (Charge	Rate	021 Propose Volume	Charge	Impact 20	021 vs 2020	\vdash	Rate 20	022 Propose Volume	Charge	In	npact 202	22 vs 2021	Rate	2023 Pr Volu		Charge	lmp	act 2023	vs 2022
	Charge Unit	(\$)	Volume	(\$)	(\$)	Volume	(\$)	\$ Change	% Change		(\$)	volulile	(\$)	s c	hange	% Change	(\$)	Voiu	ille	(\$)	\$ Cha	nge	% Change
Monthly Service Charge	Monthly	\$ 19.3200	1 \$	19.32	\$ 20.6100	1	\$ 20.61	\$ 1.29	6.68%	\$	22.0300	1	\$ 22.03	\$	1.42	6.89%	\$ 23.31	00	1 \$	23.31	\$	1.28	5.81%
Smart Meter Rate Adder			1 \$	-		1	\$ -	\$ -				1	\$ -	\$	-				1 \$	-	\$	-	
Rate Rider Calculation for Gain an		\$ -	1000 \$	-	\$ -	1000	\$ -	\$ -		\$	-		\$ -	\$	-		\$		1000 \$	-	\$	-	
Rate Rider Calculation for PILs Rate Rider Calculation for Generic	per kWh	\$ -	1000 \$ 1000 \$	-	\$ -	1000 1000		\$ -		\$		1000 1000		\$ \$	-		\$		1000 \$ 1000 \$	-	\$	-	
Nate Nidel Calculation for General	poi kviii	· -	1 \$	-	Ψ -	1	s -	s -		4	-	1	s -	s			•		1 \$		s	-	
Distribution Volumetric Rate	per kWh	\$ 0.0250	1000 \$	25.00	\$ 0.0267	1000	\$ 26.70	\$ 1.70	6.80%	\$	0.0285	1000	\$ 28.50	\$	1.80	6.74%	\$ 0.03	102	1000 \$	30.20	\$	1.70	5.96%
Smart Meter Disposition Rider			1000 \$	-		1000		\$ -				1000	\$ -	\$	-				1000 \$	-	\$	-	
LRAM Rate Rider	per kWh	\$ -	1000 \$	-	\$ 0.0006	1000		\$ 0.60		\$	0.0006			\$	-	0.00%			1000 \$		-\$	0.60	-100.00%
			1000 \$ 1000 \$	-		1000 1000		\$ -					\$ - \$ -	\$ \$	-				1000 \$ 1000 \$	-	\$	-	
			1000 \$	-		1000		\$ -				1000		\$	-				1000 \$		s	-	
			1000 \$	-		1000		\$ -				1000		\$	-				1000 \$	-	\$	-	
Deferral/Variance Account	per kWh	\$ 0.0010																					
Disposition Rate Rider Group 2			1000 \$	1.00	-\$ 0.0005	1000	-\$ 0.50	-\$ 1.50	-150.00%	-\$	0.0005	1000 -	\$ 0.50	\$	-	0.00%	\$		1000 \$	-	\$	0.50	-100.00%
			1000 S	_		1000	s -	s -				1000	s -	8	_				1000 S	_	s	_	
			1000 \$	- 1		1000	\$ -	\$ -				1000	\$ -	\$	-				1000 \$	-	\$	-	
Sub-Total A (excluding pass the			\$	45.32			\$ 47.41	\$ 2.09	4.61%				\$ 50.63	\$	3.22	6.79%			\$	53.51	\$	2.88	5.69%
Deferral/Variance Account Disposition Rate Rider Group 1	per kWh	-\$ 0.0002	1000 -\$	0.20	-\$ 0.0006	1000	-\$ 0.60	-\$ 0.40	200.00%	-s	0.0006	1000 -	\$ 0.60	s		0.00%	s		1000 \$			0.60	-100.00%
Disposition Rate Rider Group 1			1000 -\$	0.20	-\$ 0.0006	1000	-\$ U.0U	-\$ 0.40	200.00%	-5	0.0006	1000	\$ 0.00	3	-	0.00%	\$		1000 \$	-	3	0.60	-100.00%
Deferral / Variance Accounts	per kWh	\$ -																					
Balances (excluding Global Adj.)			1000 \$	-	\$ -	1000	\$ -	\$ -		\$	-	1000	\$ -	\$	-		\$		1000 \$	-	\$	-	
- NON-WMP			1000 \$			1000						1000	s -	s					1000 \$				
Low Voltage Service Charge	per kWh	\$ 0.00006	1,034 \$	0.06	\$ 0.00006	1,034		\$ 0.00	0.03%	s	0.00006		\$ 0.06	S		0.00%	\$ 0.000		034 \$	0.06	s	-	0.00%
Line Losses on Cost of Power		\$ 0.1276	34 \$	4.27	\$ 0.1276	34	\$ 4.31	\$ 0.04	0.90%	\$	0.1276		\$ 4.31	\$	-	0.00%	\$ 0.12	76	34 \$	4.31	\$	-	0.00%
Smart Meter Entity Charge	Monthly	\$ 0.5700	1 \$	0.57	\$ 0.5700	1	\$ 0.57	\$ -	0.00%	\$	0.5700	1	\$ 0.57	\$	-	0.00%	\$ 0.57	'00	1 \$	0.57	\$	-	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			\$	50.03			\$ 51.75	\$ 1.73	3.45%				\$ 54.97	\$	3.22	6.22%			\$	58.45	\$	3.48	6.33%
RTSR - Network	per kWh	\$ 0.0071	1034 \$	7.34	\$ 0.0071	1034	\$ 7.34	\$ 0.00	0.03%	\$	0.0071	1034	\$ 7.34	\$	-	0.00%	\$ 0.00	71	1034 \$	7.34	\$	-	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0050	1034 \$	5.17	\$ 0.0050	1034	\$ 5.17	\$ 0.00	0.03%	\$	0.0050	1034	\$ 5.17	\$	-	0.00%	\$ 0.00	150	1034 \$	5.17	\$	-	0.00%
Sub-Total C - Delivery										-													
(including Sub-Total B)			\$	62.53			\$ 64.26	\$ 1.73	2.77%				\$ 67.48	\$	3.22	5.01%			\$	70.96	\$	3.48	5.16%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0034	1034 \$	3.51	\$ 0.0034	1034	\$ 3.51	\$ 0.00	0.03%	\$	0.0034	1034	\$ 3.51	\$	-	0.00%	\$ 0.00	134	1034 \$	3.51	\$	-	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0005	1034 \$	0.52	\$ 0.0005	1034	\$ 0.52	\$ 0.00	0.03%	\$	0.0005	1034	\$ 0.52	\$	-	0.00%	\$ 0.00	105	1034 \$	0.52	\$	-	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1 \$	0.25	\$ 0.6200	1	\$ 0.62	\$ 0.37	148.00%	s	0.6400	1	\$ 0.64	s	0.02	3.23%	\$ 0.66	600	1 S	0.66	s	0.02	3.13%
TOU - Off Peak	,	\$ 0.1010	650 \$	65.65	\$ 0.1010	650	\$ 65.65	\$ -	0.00%	\$		650	\$ 65.65	\$	-	0.00%	\$ 0.10	110	650 \$	65.65	s	-	0.00%
TOU - Mid Peak		\$ 0.1440	170 \$	24.48	\$ 0.1440	170		\$ -	0.00%	\$		170		\$	-	0.00%	\$ 0.14		170 \$	24.48	\$	-	0.00%
TOU - On Peak Energy - RPP - Tier 1		\$ 0.2080 \$ 0.1190	180 \$ 750 \$	37.44 89.25	\$ 0.2080 \$ 0.1190	180 750		\$ - \$ -	0.00%	\$	0.2080 0.1190	180 750		S S	-	0.00%	\$ 0.20 \$ 0.11		180 \$ 750 \$	37.44 89.25	\$	-	0.00%
Energy - RPP - Tier 2		\$ 0.1190	750 \$ 250 \$	34.75	\$ 0.1190	250		\$ -	0.00%	\$	0.1190	250		s		0.00%	\$ 0.13		250 \$	34.75	s	-	0.00%
Total Bill on TOU (before Taxes		2.1000		194.38		_00			1.08%	Ě		_50		-	3,24	1.65%	5.10		-				
HST (before laxes	•)	13%	\$	25.27	13%		\$ 196.48 \$ 25.54	\$ 2.10 \$ 0.27	1.08%		13%		\$ 199.72 \$ 25.96	s	0.42	1.65%	1 .	3%	\$	203.22 26.42	s	3.50 0.45	1.75% 1.75%
Total Bill (including HST)		1570	\$	219.65	13%		\$ 222.03	\$ 2.38	1.08%		1370		\$ 225.69	\$	3.66	1.65%		0,0	\$	229.64	\$	3.95	1.75%
Provincial Rebate		31.8%	\$	61.81	31.8%		\$ 62.48	\$ 0.67	1.08%		31.8%		\$ 63.51	\$	1.03	1.65%	31	.8%	\$	64.63	\$	1.11	1.75%
Total Bill on TOU (incl Prov. Re	bate)		\$	157.84			\$ 159.55	\$ 1.71	1.08%				\$ 162.18	\$	2.63	1.65%			\$	165.02	\$	2.84	1.75%
Total Bill on RPP (before Taxes)		\$	190.81			\$ 192.91	\$ 2.10	1.10%				\$ 196.15	\$	3.24	1.68%			\$	199.65	\$	3.50	1.78%
HST		13%	\$	24.81	13%		\$ 25.08	\$ 0.27	1.10%		13%		\$ 25.50	\$	0.42	1.68%	1	3%	\$	25.96	\$	0.46	1.78%
Total Bill (including HST)		0.007	\$	215.62			\$ 217.99	\$ 2.38	1.10%				\$ 221.65	\$	3.66	1.68%	1		\$	225.61	\$	3.96	1.78%
Provincial Rebate	h-4-\	31.8%	\$	60.68	31.8%		\$ 61.35	\$ 0.67	1.10%		31.8%		\$ 62.38	\$	1.03	1.68%	31	.8%	\$	63.49 162.12	\$	1.11	1.78%
Total Bill on RPP (incl Prov. Re	paté)		\$	154.94			\$ 156.65	\$ 1.71	1.10%				\$ 159.28	\$	2.63	1.68%			\$	162.12	\$	2.84	1.78%
Loss Factor (%)		3.3500%	1		3.3800%	1				Ξ	3.3800%						3.380	109/					
LUGG FACIUI (76)		3.3500%	l .		3.3000%	1				ь.	J.3000%						3.300	10 /0					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

1,000 kWh
May 1 - October

			Current Bo	ard-Approv	ed		. [- :	024 Propos	ed		Г	Impact 20	24 vs 2023	ΙГ		2025 Propos	sed		l Ir	npact 202	25 vs 2024
	Charge Unit		Rate (\$)	Volume		Charge (\$)			Rate (\$)	Volume		Charge (\$)	r	\$ Change	% Change		Rate (\$)	Volume		Charge (\$)		Change	% Chang
Monthly Service Charge	Monthly	\$	19.3200	1	\$	19.32		\$	24.1600	1	\$	24.16	\$		3.65%		\$ 24.8200	1	\$	24.82	\$	0.66	2.73
Smart Meter Rate Adder				1	\$	-				1	\$	-	\$					1	\$	-	\$	-	
Rate Rider Calculation for Gain an	reper kWh	\$	-	1000	\$	-		\$	-	1000	\$	-	\$				\$ -	1000	\$	-	\$	-	
Rate Rider Calculation for PILs	per kWh	\$	-		\$	-		\$	-	1000		-	\$				\$ -	1000		-	\$	-	
Rate Rider Calculation for Generic	per kWh	\$	-	1000	\$	-		\$	-	1000	\$	-	\$	-			s -	1000	\$	-	\$	-	
				1	\$	-				1	\$	- 1	9					1	s	-	s	-	
Distribution Volumetric Rate	per kWh	\$	0.0250	1000	\$	25.00		\$	0.0313	1000	\$	31.30	\$	1.10	3.64%		\$ 0.0321	1000	\$	32.10	\$	0.80	2.56
Smart Meter Disposition Rider				1000	s	-				1000	\$	- 1	9					1000	\$	-	s	-	
LRAM Rate Rider	per kWh	\$	-	1000	\$	-				1000	\$	- 1	\$					1000		-	s	-	
	•				s	-				1000		- 1	9					1000		-	s	-	
					\$	-				1000		-	Š					1000		-	Š	-	
					s	-				1000		- 1	9					1000		-	s	-	
				1000	s	-				1000	s	- 1	9					1000	s	-	s	-	
Deferral/Variance Account	per kWh	s	0.0010		-						1		- 1 ~					1000	1		*		
Disposition Rate Rider Group 2	,	-		1000	\$	1.00		s	_	1000	\$	_	9				s -	1000	s	-	s	_	
Disposition read reads Group 2				1000	•	1.00		•		1000	Ψ.		"				~	1000	1		1		
				1000	s	_				1000	s	_	9					1000	\$		s	_	
				1000	Š	_				1000		_	5					1000		-	Š	_	
Sub-Total A (excluding pass the	rough)				Š	45,32				1000	\$	55.46	5		3,64%	l 1		1000	Š	56.92	\$	1.46	2.63
Deferral/Variance Account	per kWh	¢	0.0002		•	40.02	.				Ť	00.40	ľ	1.00	0.0470	H			Ť	00.02	Ť	1.40	2.00
Disposition Rate Rider Group 1	per Kvvii	-ψ	0.0002	1000	-\$	0.20		s	_	1000	s	_	9				s -	1000	s	_	s		
Disposition Nate Nate Order 1				1000	-9	0.20		Ψ		1000	Ψ	-	1 *				-	1000	1 *	- 1	9		
Deferral / Variance Accounts	per kWh																						
Balances (excluding Global Adj.)	perkvvn	э	-	1000	\$			\$		1000		_	9				s -	1000	\$		s	_	
				1000	3	-		Ф	-	1000	э	-	13				• -	1000	3	-	3	-	
- NON-WMP				4000									١.								s		
		_			\$	-				1000 1.034		-	\$		0.000/			1000		-		-	
Low Voltage Service Charge	per kWh	\$	0.00006		\$	0.06			0.00006		\$	0.06	\$		0.00%		\$ 0.00006		\$	0.06	\$	-	0.00
Line Losses on Cost of Power		\$	0.1276	34	\$	4.27		\$	0.1276	34	\$	4.31	\$		0.00%		\$ 0.1276 \$ 0.5700		\$	4.31	\$	-	0.00
Smart Meter Entity Charge	Monthly	\$	0.5700	- 1	\$	0.57	.	\$	0.5700	- 1	\$	0.57	3	-	0.00%	l ⊦	\$ 0.5700	1	\$	0.57	\$	_	0.00
Sub-Total B - Distribution					\$	50.03					\$	60.40	\$	1.95	3.34%				s	61.86	\$	1.46	2.42
(includes Sub-Total A)							.	_			Ė								Ľ.				
RTSR - Network	per kWh	\$	0.0071	1034	\$	7.34		\$	0.0071	1034	\$	7.34	\$	-	0.00%		\$ 0.0071	1034	\$	7.34	\$	-	0.00
RTSR - Line and	per kWh	s	0.0050	1034	\$	5.17		s	0.0050	1034	\$	5.17	9		0.00%		\$ 0.0050	1034	\$	5.17	s	-	0.00
Transformation Connection	•						.						- 1						Ľ		Ŀ		
Sub-Total C - Delivery					\$	62.53					\$	72.91	9	1.95	2.75%				\$	74.37	s	1.46	2.00
(including Sub-Total B)							.				-		Ľ			L			Ť		Ľ		
Wholesale Market Service	per kWh	\$	0.0034	1034	\$	3.51		\$	0.0034	1034	s	3.51	9		0.00%		\$ 0.0034	1034	\$	3.51	\$	_	0.00
Charge (WMSC)				1004	•	0.01				1004	Ψ.	0.01	"		0.0070				1	0.01	1		0.00
Rural and Remote Rate	per kWh	\$	0.0005	1034	s	0.52		\$	0.0005	1034	s	0.52	9		0.00%		\$ 0.0005	1034	\$	0.52	s	-	0.00
Protection (RRRP)											1		- 1 '								1 '		
Standard Supply Service Charge	Monthly	\$	0.2500		\$	0.25		\$	0.6800	1	\$	0.68	\$		3.03%		\$ 0.7000		\$	0.70	\$	0.02	2.94
TOU - Off Peak		\$	0.1010		\$	65.65		\$	0.1010	650		65.65	\$		0.00%		\$ 0.1010			65.65	\$	-	0.00
TOU - Mid Peak		\$	0.1440		\$	24.48		\$	0.1440	170		24.48	\$		0.00%		\$ 0.1440			24.48	\$	-	0.00
TOU - On Peak		\$	0.2080		\$	37.44		\$	0.2080	180		37.44	\$		0.00%		\$ 0.2080			37.44	\$	-	0.00
Energy - RPP - Tier 1		\$	0.1190		\$	89.25		\$	0.1190	750		89.25	\$		0.00%		\$ 0.1190			89.25	\$	-	0.00
Energy - RPP - Tier 2		\$	0.1390	250	\$	34.75	1	\$	0.1390	250	\$	34.75	\$	-	0.00%		\$ 0.1390	250	\$	34.75	\$	-	0.00
	,				ļ	194.38	1								2.250					***		4 40	
Total Bill on TOU (before Taxes	i)				\$						\$	205.19	\$		0.97%				\$	206.67	\$	1.48	0.72
HST			13%		\$	25.27			13%		\$	26.68	\$		0.97%		139	6	\$	26.87	\$	0.19	0.72
Total Bill (including HST)					\$	219.65					\$	231.87	\$		0.97%				\$	233.54	\$	1.67	0.72
Provincial Rebate			31.8%		\$	61.81			31.8%		\$	65.25	\$		0.97%		31.89	6	\$	65.72	\$	0.47	0.72
Total Bill on TOU (incl Prov. Re	bate)				\$	157.84					\$	166.62	\$	1.60	0.97%				\$	167.82	\$	1.20	0.72
						100.6	1							16-							-	4.75	
Total Bill on RPP (before Taxes	i)				\$	190.81					\$	201.62	\$		0.99%				\$	203.10	\$	1.48	0.73
HST			13%		\$	24.81			13%		\$	26.21	\$		0.99%		139	6	\$	26.40	\$	0.19	0.73
Total Bill (including HST)					\$	215.62				l	\$	227.84	\$		0.99%			1	\$	229.51	\$	1.67	0.73
Provincial Rebate			31.8%		\$	60.68			31.8%	l	\$	64.12	\$		0.99%		31.89	6	\$	64.59	\$	0.47	0.73
Total Bill on RPP (incl Prov. Re	bate)				\$	154.94					\$	163.72	\$	1.60	0.99%				\$	164.92	\$	1.20	0.73
							1																
										, –						_		_					
Loss Factor (%)			3.3500%				ļ		3.3800%								3.38009	6					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component contributes consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, the to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 26 of 56

	_			ı.								
rge	-	Impact 20	24 vs 2023	-		Rate 2	025 Propos Volume	ed	Charge	In	npact 202	5 vs 2024
i 90 i)		\$ Change	% Change			(\$)	Volume		(\$)	sc	Change	% Change
24.16	5	0.85	3.65%		\$	24.8200	1	\$	24.82	\$	0.66	2.73%
-	5						1	\$	-	\$	-	
-	9				\$	-	1000 1000	\$	-	\$	-	
-	3				S	- 1	1000	s	- 1	\$		
	3				•		1	\$	-	\$	-	
31.30	5	1.10	3.64%		\$	0.0321	1000	\$	32.10	\$	0.80	2.56%
-	5						1000	\$	-	\$	-	
-	5						1000 1000	\$	-	\$	-	
-	3						1000	s	-	S	-	
	5						1000	\$	-	\$	-	
-	5	-					1000	\$	-	\$	-	
-	5	-			\$	-	1000	\$	-	\$	-	
-		-					1000	\$	-	\$	-	
55.46			3,64%	-			1000	\$ \$	56.92	\$	1.46	2.63%
								Ė		•		
-	5	-			\$	-	1000	\$	-	\$	-	
_					s	_	1000	s	_	\$	-	
-							1000	\$	-	\$	-	0.000/
0.06 4.31	3		0.00%		\$	0.00006	1,034 34	\$	0.06 4.31	\$	-	0.00%
0.57		-	0.00%		\$	0.5700	1	\$	0.57	\$	-	0.00%
60.40	:	1.95	3.34%					\$	61.86	\$	1.46	2.42%
7.34	5	-	0.00%		\$	0.0071	1034	\$	7.34	\$	-	0.00%
5.17	5	-	0.00%		\$	0.0050	1034	\$	5.17	\$	-	0.00%
72.91	5	1.95	2.75%					\$	74.37	\$	1.46	2.00%
3.51	5	-	0.00%	Ī	\$	0.0034	1034	\$	3.51	\$	-	0.00%
0.52	5	-	0.00%		\$	0.0005	1034	\$	0.52	\$	-	0.00%
0.68	5		3.03%		\$	0.7000	1	\$	0.70	\$	0.02	2.94%
65.65		-	0.00%		\$	0.1010	650	\$	65.65	\$	-	0.00%
24.48			0.00%		\$	0.1440	170	\$	24.48	\$	-	0.00%
37.44 89.25	5		0.00%		\$	0.2080	180 750	\$	37.44 89.25	\$	-	0.00%
34.75	3		0.00%		\$	0.1390	250	\$	34.75	\$	-	0.00%
205.19	-	1.97	0.97%					\$	206.67	\$	1.48	0.72%
26.68		0.26	0.97%			13%		\$	26.87	\$	0.19	0.72%
231.87	5		0.97%					\$	233.54	\$	1.67	0.72%
65.25			0.97%			31.8%		\$	65.72	\$	0.47	0.72%
66.62		1.60	0.97%	ı				\$	167.82	\$	1.20	0.72%
201.62			0.99%	ſ				\$	203.10	\$	1.48	0.73%
26.21			0.99%			13%		\$	26.40	\$	0.19	0.73%
227.84	\$		0.99%			04.007		\$	229.51	\$	1.67	0.73%
64.12 163.72	9		0.99%			31.8%		S	64.59 164.92	\$	0.47 1.20	0.73% 0.73%
03.72	-	1.60	0.39%	-	-			3	104.92	3	1.20	0.73%

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

Consumption 2,000 kWh May 1 - October 31 O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Consumption		OUU KW			_	O No	vember 1 spin si	o (ocicet tino radio		птог аррисация	s filed after Oct 31)	_							_						
				oard-Appr				021 Proposed			Impact 20	21 vs 2020			22 Propose		lm	pact 202	22 vs 2021			2023 Propose		lı	npact 20	23 vs 2022
	Charge Unit	Rate (\$)	Vo	olume	Charge (\$)		Rate (\$)	Volume	Charge (\$)		\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Ch	ange	% Change		Rate (\$)	Volume	Charge (\$)		hange	% Change
Monthly Service Charge	Monthly	\$ 19.3	200	1 \$	\$ 19.32	\$		1 \$	20.61	\$		6.68%	\$		1		\$	1.42	6.89%	\$	23.3100	1	\$ 23.31	\$	1.28	5.81%
Smart Meter Rate Adder				1 \$	\$ -			1 \$	-	\$	-					\$ -	\$	-					\$ -	\$	-	
Rate Rider Calculation for Gain an		T .	-	2000		\$	-	2000 \$		\$			\$	-	2000		\$	-		\$	-	2000		\$	-	
Rate Rider Calculation for PILs Rate Rider Calculation for Generic	per kWh	-	_	2000 \$		9	5 - 5 -	2000 \$ 2000 \$		\$			\$	-	2000 2000	\$ -	\$	-		\$	-	2000 2000		\$ \$	- :	
Rate Rider Calculation for Generic	perkvvn	Ф	-	2000 3	-	\$	-	2000 \$		3			Ф	-	2000		s	- 1		Ф	-		\$ - \$ -	\$	- :	
Distribution Volumetric Rate	per kWh	\$ 0.0	250	2000	50.00	5	0.0267	2000 \$	53.40	S	3.40	6.80%	\$	0.0285	2000	\$ 57.00	\$	3.60	6.74%	\$	0.0302	2000	\$ 60.40	\$	3.40	5.96%
Smart Meter Disposition Rider				2000	\$ -			2000 \$		\$					2000		\$	-				2000		\$	-	
LRAM Rate Rider	per kWh	\$	-	2000		\$	0.00060	2000 \$		\$			\$	0.0006	2000		\$	-	0.00%	\$	-	2000		-\$	1.20	-100.00%
				2000 \$				2000 \$ 2000 \$		\$					2000 2000		\$	-				2000 2000		\$	- 1	
				2000 9				2000 \$		9						\$ - \$ -	s					2000		s		
				2000				2000 \$		\$	-				2000	\$ -	\$	-				2000		\$	-	
Deferral/Variance Account	per kWh	\$ 0.0	010																							
Disposition Rate Rider Group 2				2000 \$	\$ 2.00	-\$	0.0005	2000 -\$	1.00	-\$	3.00	-150.00%	-\$	0.0005	2000 -	\$ 1.00	\$	-	0.00%	\$	-	2000	\$ -	\$	1.00	-100.00%
				2000 \$				2000 \$	_						2000	¢ .	•	_				2000	s -	•		
				2000 \$				2000 \$		9					2000		\$					2000		\$		
Sub-Total A (excluding pass thr	rough)				71.32	t		\$	74.21	\$	2.89	4.05%				\$ 79.23	\$	5.02	6.76%				\$ 83.71	\$	4.48	5.65%
Deferral/Variance Account	per kWh	-\$ 0.0	002			-\$	0.00060			Π.													_			
Disposition Rate Rider Group 1				2000 -\$	0.40			2000 -\$	1.20	-\$	0.80	200.00%	-\$	0.0006	2000 -	\$ 1.20	\$	-	0.00%	\$	-	2000	\$ -	\$	1.20	-100.00%
Deferral / Variance Accounts	per kWh	\$	_																							
Balances (excluding Global Adj.)	•	·		2000 \$	\$ -	\$	- 8	2000 \$	-	\$	-		\$	-	2000	\$ -	\$	-		\$	-	2000	\$ -	\$	-	
- NON-WMP										١.													_			
Low Voltage Service Charge	per kWh	\$ 0.00	006	2000 \$	5 - 5 0.12	s	0.00006	2000 \$ 2,068 \$		\$,	0.03%	\$	0.00006	2000 2,068	\$ - \$ 0.12	\$	-	0.00%	-	0.00006	2000 2,068	\$ - \$ 0.12	\$ \$		0.00%
Line Losses on Cost of Power	perkvvn	\$ 0.00		67 9		9		68 \$		3		0.90%	\$		68		s		0.00%	\$	0.1276	2,066		\$	- :	0.00%
Smart Meter Entity Charge	Monthly	\$ 0.5		1 9		\$		1 \$		\$	-	0.00%	\$			\$ 0.57	\$	-	0.00%	\$	0.5700	1	\$ 0.57	\$	-	0.00%
Sub-Total B - Distribution				\$	80.16			\$	82.33	\$	2.17	2.70%				\$ 87.35	\$	5.02	6.10%				\$ 93.03	\$	5.68	6.50%
(includes Sub-Total A) RTSR - Network	per kWh	\$ 0.0	071	2067	14.68	9	0.0071	2068 \$	14.68	ç	0.00	0.03%	\$	0.0071	2068	\$ 14.68	s	-	0.00%	\$	0.0071	2068	\$ 14.68	s		0.00%
RTSR - Line and Transformation										ľ							s							s		
Connection	per kWh	\$ 0.0	050	2067	10.34	\$	0.0050	2068 \$	10.34	\$	0.00	0.03%	\$	0.0050	2068	\$ 10.34	2	-	0.00%	\$	0.0050	2068	\$ 10.34	\$	-	0.00%
Sub-Total C - Delivery				\$	105.17			\$	107.35	\$	2.17	2.07%				\$ 112.37	\$	5.02	4.68%				\$ 118.05	\$	5.68	5.05%
(including Sub-Total B) Wholesale Market Service	per kWh	\$ 0.0	034			5	0.0034			Н			\$	0.0034						4	0.0034					
Charge (WMSC)	per Kvvii	Ψ 0.0	004	2067	7.03	4	0.0004	2068 \$	7.03	\$	0.00	0.03%	Ψ	0.0054	2068	\$ 7.03	\$	-	0.00%	Ψ	0.0004	2068	\$ 7.03	\$	-	0.00%
Rural and Remote Rate	per kWh	\$ 0.0	005	2067	1.03	\$	0.0005	2068 \$	1.03	9	0.00	0.03%	\$	0.0005	2068	\$ 1.03		_	0.00%	\$	0.0005	2068	\$ 1.03			0.00%
Protection (RRRP)										- 1 *							٠							٠		
Standard Supply Service Charge TOU - Off Peak	Monthly	\$ 0.2 \$ 0.1		1300 \$		9		1 \$		\$		148.00% 0.00%	\$	0.6400 0.1010	1 1300		\$	0.02	3.23% 0.00%	\$	0.6600 0.1010	1 1300	\$ 0.66 \$ 131.30	\$	0.02	3.13% 0.00%
TOU - Oπ Peak TOU - Mid Peak		\$ 0.1		340 \$		3		340 \$		9		0.00%	\$		340		\$		0.00%	\$	0.1010	340		\$	-	0.00%
TOU - On Peak		\$ 0.2		360	74.88	\$	0.2080	360 \$		\$		0.00%	\$		360		\$	-	0.00%	\$	0.2080	360		\$	-	0.00%
Energy - RPP - Tier 1		\$ 0.1		750 \$		\$		750 \$		\$	-	0.00%	\$		750		\$	-	0.00%	\$	0.1190	750		\$	-	0.00%
Energy - RPP - Tier 2		\$ 0.1	390	1250 \$	173.75	\$	0.1390	1250 \$	173.75	\$	-	0.00%	\$	0.1390	1250	\$ 173.75	\$	-	0.00%	\$	0.1390	1250	\$ 173.75	\$	-	0.00%
Total Bill on TOU (before Taxes	:)			9	368.62	$\overline{}$		\$	371.17	\$	2.55	0.69%				\$ 376.21	\$	5.04	1.36%				\$ 381.91	\$	5.70	1.52%
HST			13%	\$	\$ 47.92		13%	\$	48.25	\$	0.33	0.69%		13%		\$ 48.91	\$	0.66	1.36%		13%		\$ 49.65	\$	0.74	1.52%
Total Bill (including HST)				\$	\$ 416.54			\$	419.42	\$		0.69%				\$ 425.12	\$	5.70	1.36%				\$ 431.56	\$	6.44	1.52%
Provincial Rebate		31	.8%	9	117.22		0.318	\$	118.03	\$	0.81	0.69%		31.8%		\$ 119.63	\$	1.60	1.36%		31.8%		\$ 121.45	\$	1.81	1.52%
Total Bill on TOU (incl Prov. Rel	bate)			\$	299.32	_		\$	301.39	\$	2.07	0.69%				\$ 305.48	\$	4.09	1.36%				\$ 310.11	\$	4.63	1.52%
Total Bill on RPP (before Taxes)			\$	376.48			\$	379.03	\$	2.55	0.68%				\$ 384.07	\$	5.04	1.33%				\$ 389.77	\$	5.70	1.48%
HST			13%	\$	48.94		13%	\$	49.27	\$	0.33	0.68%		13%		\$ 49.93	\$	0.66	1.33%		13%		\$ 50.67	\$	0.74	1.48%
Total Bill (including HST) Provincial Rebate		24	.8%	9	425.43		0.040	\$	428.30	\$	2.88	0.68%		04.00/		\$ 434.00	\$	5.70	1.33%		04.00/		\$ 440.44	\$	6.44	1.48%
Total Bill on RPP (incl Prov. Rel	hata)	31	.0 /0	3	\$ 119.72 \$ 305.70		0.318	\$	120.53 307.77	\$	0.81	0.68%		31.8%		\$ 122.13 \$ 311.86	\$	1.60 4.09	1.33% 1.33%		31.8%		\$ 123.95 \$ 316.49	\$	1.81 4.63	1.48% 1.48%
Total Bill on RPP (Inci Prov. Ref	vate)			3	305.70			\$	307.77	,	2.07	0.00%				ş 311.8b	Þ	4.09	1.33%				φ 316.49	3	4.03	1.46%
		0.55	000/				0.000001					·		0.000000							0.00000**	1				
Loss Factor (%)		3.35	UU%			Ш	3.3800%							3.3800%							3.3800%	J				

to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility

Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

Consumption 2,000 kWh May 1 - October :

		_		nt Board-Ap	pro	vea			2024 Propos	ed		1	lı	npact 20:	24 vs 2023
			Rate	Volume		Charge		Rate	Volume		Charge				
Manthi Sania Chara	Charge Unit Monthly	\$	19.3200	1	\$	(\$) 19.32	9	(\$) 5 24.1600	1	\$	(\$) 24.16	+	\$ C	hange 0.85	% Change 3.659
Monthly Service Charge Smart Meter Rate Adder	ivioritrily	Ф	19.3200	1	\$	19.32		24.1000		\$	24.10		\$	0.00	3.007
Rate Rider Calculation for Gain and	ner kWh	\$		2000			5		2000		- :		\$		
Rate Rider Calculation for PILs	per kWh	\$		2000	s	_	3		2000	\$	_		Š	-	
Rate Rider Calculation for Generic		\$		2000		-	5		2000		-		\$	-	
				1	\$	-			1	\$	-		\$	-	
Distribution Volumetric Rate	per kWh	\$	0.0250	2000		50.00	5	0.0313	2000		62.60		\$	2.20	3.649
Smart Meter Disposition Rider				2000	\$	-			2000	\$	-		\$	-	
LRAM Rate Rider	per kWh	\$	-	2000		-	5	-	2000		-		\$	- 1	
				2000 2000	\$	-			2000 2000				\$		
				2000	s				2000	\$			s		
				2000		-			2000		-		Š	-	
Deferral/Variance Account	per kWh	\$	0.0010		ľ										
Disposition Rate Rider Group 2				2000	\$	2.00	5	- 8	2000	\$	-		\$	-	
				2000		-			2000		-		\$	-	
0.1.7.4.14/1.15				2000	\$	-	-		2000	\$	86.76	ļ.,	\$	3.05	3,64%
Sub-Total A (excluding pass thro Deferral/Variance Account	per kWh	-\$	0.0002		ð	71.32	- F			Þ	00.70	ł	Þ	3.05	3.647
Disposition Rate Rider Group 1	por ktrii	•	0.0002	2000	-\$	0.40	5		2000	\$	-		\$	-	
					ľ										
Deferral / Variance Accounts	per kWh	\$	-												
Balances (excluding Global Adj.)				2000	\$	-	5	-	2000	\$	-		\$	-	
- NON-WMP													_		
Low Voltage Service Charge	per kWh	\$	0.00006	2000 2.067	\$	0.12		0.00006	2000 2,068	\$	0.12		\$	- 1	0.009
Line Losses on Cost of Power	perkvvn	\$	0.1276	2,067	\$	8.55	9		68	\$	8.62		\$	-	0.009
Smart Meter Entity Charge	Monthly	s	0.5700	1	\$	0.57	3		1	\$	0.57		Š	-	0.007
Sub-Total B - Distribution		Ť			s	80.16				\$	96.08	i	\$	3.05	3.28%
(includes Sub-Total A)														3.05	
RTSR - Network	per kWh	\$	0.0071	2067	\$	14.68	5	0.0071	2068	\$	14.68		\$	-	0.009
RTSR - Line and Transformation	per kWh	\$	0.0050	2067	\$	10.34	5	0.0050	2068	\$	10.34		\$	-	0.009
Connection		<u> </u>			H		H			-		1			
Sub-Total C - Delivery (including Sub-Total B)					\$	105.17				\$	121.10		\$	3.05	2.58%
Wholesale Market Service	per kWh	\$	0.0034				9	0.0034				ł			
Charge (WMSC)		_		2067	\$	7.03			2068	\$	7.03		\$	-	0.009
Rural and Remote Rate	per kWh	\$	0.0005	2067	\$	1.03	5	0.0005	2068	\$	1.03	1	\$		0.009
Protection (RRRP)									2068			1			
	Monthly	\$	0.2500	1	\$	0.25	5		1	\$	0.68	1	\$	0.02	3.039
TOU - Off Peak		\$	0.1010	1300		131.30	5		1300		131.30	1	\$	-	0.009
TOU - Mid Peak TOU - On Peak		\$	0.1440 0.2080	340 360		48.96	3		340 360		48.96	1	\$	-	0.009
Energy - RPP - Tier 1		\$	0.2080	750		74.88 89.25	9		750		74.88 89.25	1	\$		0.009
Energy - RPP - Tier 2		\$	0.1390	1250		173.75	3		1250		173.75		Š	-	0.009
		Ť		1200											
Total Bill on TOU (before Taxes) HST		1	420/		\$	368.62		13%		\$	384.98 50.05	1	\$	3.07 0.40	0.80%
Total Bill (including HST)		1	13%		\$	47.92 416.54		13%		\$	435.03	1	\$	3.47	0.809
Provincial Rebate			31.8%		\$	117.22		31.8%		\$	122.42		\$	0.98	0.809
Total Bill on TOU (incl Prov. Reb	ate)		21.070		S	299.32		31.070		\$	312.60		S	2.49	0.80%
	/														
Total Bill on RPP (before Taxes)		1			\$	376.48				\$	392.84	1	\$	3.07	0.79%
HST		1	13%		\$	48.94		13%		\$	51.07	1	\$	0.40	0.799
Total Bill (including HST) Provincial Rebate		1	31.8%		\$	425.43		04.00/		\$	443.91	1	\$	3.47	0.799
	-4-1		31.076		S	119.72		31.8%		\$	124.92 318.99		\$	0.98 2.49	0.799
Total Bill on RPP (incl Prov. Reb	ate)				ð	305.70				P	310.33		Ť	2.43	0.137

	Rate	Volume		Charge			
	(\$)			(\$)		hange	% Change
\$	24.8200	1	\$	24.82	\$	0.66	2.73%
		1	\$	-	\$		
\$	-	2000	\$	-	\$		
\$	_	2000	\$		\$		
S	-	2000	\$	-	Š	- 1	
Ф	-			-		-	
		1	\$	-	\$	-	
\$	0.0321	2000	\$	64.20	\$	1.60	2.56%
		2000	\$	-	\$	-	
\$	-	2000	\$	-	\$	-	
		2000	\$	-	\$		
		2000	\$	-	\$		
		2000	\$		Š	_	
		2000	s	-	s	-	
		2000	φ	-	٩	-	
_		0000			_		
\$	-	2000	\$	-	\$	-	
					1.		
		2000	\$	-	\$	-	
		2000	\$		\$	-	
			\$	89.02	\$	2.26	2.60%
Т							
\$		2000	\$	-	\$	-	
\$	_	2000	\$		\$	_	
Ψ	-	2000	Ψ	-		-	
		0000			_		
_		2000	\$		\$	-	
\$	0.00006	2,068	\$	0.12	\$	-	0.00%
\$	0.1276	68	\$	8.62	\$	-	0.00%
\$	0.5700	1	\$	0.57	\$	-	0.00%
			\$	98.34	\$	2.26	2.35%
\$	0.0071	2068	\$	14.68	\$	-	0.00%
s	0.0050	2068	\$	10.34	s	-	0.00%
_			-		-		
			\$	123.36	\$	2.26	1.87%
\$	0.0034	2068	\$	7.03	\$	-	0.00%
\$	0.0005	2068	\$	1.03	s	_	0.00%
					1		
\$	0.7000	1	\$	0.70	\$	0.02	2.94%
\$	0.1010	1300	\$	131.30	\$	-	0.00%
\$	0.1440	340	\$	48.96	\$	-	0.00%
\$	0.2080	360	\$	74.88	\$		0.00%
\$	0.1190	750	\$	89.25	s		0.00%
\$	0.1130	1250	\$	173.75	s		0.00%
¥	0.1030	1230	Ÿ	113.13	1 4	-	
			\$	387.26	\$	2.28	0.59%
				50.04	1.0	0.20	0.59%
	13%		\$	50.34	\$	0.30	
	13%						
			\$	437.60	\$	2.58	0.59%
	13% 31.8%		\$	437.60 123.15	\$	2.58 0.73	0.59% 0.59%
			\$	437.60	\$	2.58	0.59%
			\$	437.60 123.15 314.45	\$	2.58 0.73 1.85	0.59% 0.59% 0.59%
	31.8%		\$ \$	437.60 123.15 314.45 395.12	\$ \$ \$	2.58 0.73 1.85	0.59% 0.59% 0.59%
			\$ \$	437.60 123.15 314.45 395.12 51.37	\$ \$ \$	2.58 0.73 1.85 2.28 0.30	0.59% 0.59% 0.59% 0.58% 0.58%
	31.8%		\$ \$ \$ \$ \$ \$ \$ \$ \$	437.60 123.15 314.45 395.12 51.37 446.48	\$ \$ \$ \$	2.58 0.73 1.85 2.28 0.30 2.58	0.59% 0.59% 0.58% 0.58% 0.58% 0.58%
	31.8%		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	437.60 123.15 314.45 395.12 51.37 446.48 125.65	\$ \$ \$ \$ \$	2.58 0.73 1.85 2.28 0.30 2.58 0.73	0.59% 0.59% 0.59% 0.58% 0.58% 0.58% 0.58%
	31.8%		\$ \$ \$ \$ \$ \$ \$ \$ \$	437.60 123.15 314.45 395.12 51.37 446.48	\$ \$ \$ \$	2.58 0.73 1.85 2.28 0.30 2.58	0.59% 0.59% 0.58% 0.58% 0.58% 0.58%

2025 Proposed Volume

Charge

Impact 2025 vs 2024

to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjuste

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier R

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 28 of 56

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

5,000 kWh
May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

										_						_						
		Rate	oard-Approved	Charge	Rate	021 Propose Volume	Charge	Impact	2021 vs 2020	-	Rate 2	022 Proposed Volume	Charge	Impac	2022 vs 2021	-	Rate	2023 Propose Volume	Charge	Imp	ict 2023	3 vs 2022
	Charge Unit	(\$)	Volume	(\$)	(\$)	Volume	(\$)	\$ Change	% Change		(\$)	Volume	(\$)	\$ Chang	e % Change		(\$)	Volume	(\$)	\$ Cha	nae	% Change
Monthly Service Charge	Monthly	\$ 19.3200	1 \$		\$ 20.6100	1		\$ 1.2		9	22.0300	1 \$	22.03		42 6.89%	9	23.3100	1	\$ 23.31	\$	1.28	5.81%
Smart Meter Rate Adder		_	1 \$	-	_		\$ -	\$ -				1 \$	-	\$				1	\$ -	\$	-	
Rate Rider Calculation for Gain an Rate Rider Calculation for PILs	per kWh	\$ - \$ -	5000 \$ 5000 \$	-	\$ - \$ -	5000 5000		\$ -		3	-	5000 \$ 5000 \$	-	\$		9	-	5000 5000		\$	-	
Rate Rider Calculation for Pills Rate Rider Calculation for Generic		\$ - \$	5000 \$	-	s -	5000		s -		9	-	5000 \$		s		9		5000		S S	-	
Tato rada Galouador los Gararo	por KVIII	•	1 8	-	•	1		\$ -			,	1 \$	-	s		,		1	\$ -	\$	-	
Distribution Volumetric Rate	per kWh	\$ 0.0250	5000 \$	125.00	\$ 0.0267	5000		\$ 8.5	0 6.80%	9	0.0285	5000 \$	142.50	\$ 9	00 6.74%	9	0.0302	5000		\$	8.50	5.96%
Smart Meter Disposition Rider		_	5000 \$	-		5000		\$ -	_			5000 \$		\$				5000		\$		
LRAM Rate Rider	per kWh	\$ -	5000 \$ 5000 \$	-	\$ 0.00060	5000 5000		\$ 3.0	9	5	0.0006	5000 \$ 5000 \$	3.00	\$	0.00%	\$	-	5000 5000		-\$ \$	3.00	-100.00%
			5000 \$	-		5000		\$ -				5000 \$		s					\$ -	\$	-	
			5000 \$	-		5000	\$ -	\$ -				5000 \$	-	\$				5000	\$ -	\$	-	
			5000 \$	-		5000	\$ -	\$ -				5000 \$	-	\$				5000	\$ -	\$	-	
Deferral/Variance Account Disposition Rate Rider Group 2	per kWh	\$ 0.0010	5000 \$	5.00	-\$ 0.0005	5000	\$ 2.50	-\$ 7.5	-150.00%	-5	0.0005	5000 -\$	2.50	s	0.00%	9		5000	s .	s	2.50	-100.00%
Disposition Rate Rider Group 2			3000 \$	5.00	-\$ 0.0005	3000	-φ 2.30	-\$ 1.5	-130.00%	7	0.0003	3000 -\$	2.30	a .	0.00%	4	, -	3000	• -	φ	2.30	-100.00%
			5000 \$	-		5000		\$ -				5000 \$	-	\$				5000	\$ -	\$	-	
Sub-Total A (excluding pass the			5000 \$	149.32		5000	\$ - \$ 154.61	\$ -	9 3.54%	-		5000 \$	165.03	\$ 10	42 6.74%			5000	\$ - \$ 174.31	\$	9.28	5.62%
Deferral/Variance Account	per kWh	-\$ 0.0002		149.32	-\$ 0.00060		\$ 154.61	\$ 5.2	3.54%	-		•	165.03	\$ 10	42 6.74%	-			\$ 1/4.31	\$	9.28	5.62%
Disposition Rate Rider Group 1	p =		5000 -\$	1.00	•	5000	\$ 3.00	-\$ 2.0	200.00%	-9	0.0006	5000 -\$	3.00	\$	0.00%	9	-	5000	\$ -	\$	3.00	-100.00%
Deferral / Variance Accounts	per kWh																					
Balances (excluding Global Adj.)	per kwiii	-	5000 \$		s -	5000	s -	s -		5		5000 \$	_	s		9		5000	s -	s	-	
- NON-WMP					*		*	,		- `				1								
			5000 \$	-		5000		\$ -				5000 \$	-	\$				5000		\$	-	
Low Voltage Service Charge Line Losses on Cost of Power	per kWh	\$ 0.00006 \$ 0.1276	5,168 \$ 168 \$		\$ 0.00006 \$ 0.1276	5,169 169	\$ 0.31 \$ 21.56	\$ 0.0 \$ 0.1		9	0.00006	5,169 \$ 169 \$	0.31 21.56	\$			0.00006		\$ 0.31 \$ 21.56	\$	-	0.00%
Smart Meter Entity Charge	Monthly	\$ 0.5700	1 8	0.57	\$ 0.5700	1		\$ -	0.00%	9		1 \$	0.57	s	0.00%	9		1	\$ 0.57	\$	-	0.00%
Sub-Total B - Distribution			9	170.57			\$ 174.05	\$ 3.4	B 2.04%			s	184.47	\$ 10	42 5.99%				\$ 196.75	s ·	2.28	6.66%
(includes Sub-Total A) RTSR - Network	per kWh	\$ 0.0071	5168	36.69	\$ 0.0071	5169		\$ 0.0		5	0.0071	5169 \$	36.70	s			0.0071	5169			-	0.00%
RTSR - Line and														I.						,		
Transformation Connection	per kWh	\$ 0.0050	5168	25.84	\$ 0.0050	5169	\$ 25.85	\$ 0.0	1 0.03%	\$	0.0050	5169 \$	25.85	\$	0.00%	7	0.0050	5169	\$ 25.85	\$	-	0.00%
Sub-Total C - Delivery (including Sub-Total B)			\$	233.09			\$ 236.59	\$ 3.5	0 1.50%			\$	247.01	\$ 10	42 4.40%				\$ 259.29	\$	2.28	4.97%
Wholesale Market Service	per kWh	\$ 0.0034			\$ 0.0034					9	0.0034					9	0.0034					
Charge (WMSC)	F		5168	17.57		5169	\$ 17.57	\$ 0.0	1 0.03%	- `		5169 \$	17.57	\$	0.00%			5169	\$ 17.57	\$	-	0.00%
Rural and Remote Rate	per kWh	\$ 0.0005	5168	2.58	\$ 0.0005	5169	\$ 2.58	\$ 0.0	0.03%	9	0.0005	5169 S	2.58	s	0.00%	\$	0.0005	5169	\$ 2.58	s	-	0.00%
Protection (RRRP) Standard Supply Service Charge	Monthly	\$ 0.2500	4 6	0.25	\$ 0.6200	1		\$ 0.3		5	0.6400	1 0	0.64	\$ 0		0	0.6600		\$ 0.66	s	0.02	3.13%
TOU - Off Peak	worldily	\$ 0.2300	3250 \$		\$ 0.1010	3250		\$ -	0.00%	3		3250 \$	328.25	\$		9		3250		\$	-	0.00%
TOU - Mid Peak		\$ 0.1440	850 \$	122.40	\$ 0.1440	850	\$ 122.40	\$ -	0.00%	9	0.1440	850 \$	122.40	\$	0.00%	\$	0.1440	850	\$ 122.40	\$	-	0.00%
TOU - On Peak		\$ 0.2080	900 \$	187.20	\$ 0.2080	900		\$ -	0.00%	9		900 \$	187.20	\$		9		900		\$	-	0.00%
Energy - RPP - Tier 1 Energy - RPP - Tier 2		\$ 0.1190 \$ 0.1390	750 \$ 4250 \$		\$ 0.1190 \$ 0.1390	750 4250		\$ -	0.00%	9		750 \$ 4250 \$	89.25 590.75	\$	0.00%	9		750 4250		\$		0.00%
		U.1390	4200 \$		φ 0.1390	4230				3	0.1380	4200 \$				3	0.1390	4230		1 4		
Total Bill on TOU (before Taxes HST	s)	13%		891.35 115.88	13%		\$ 895.22 \$ 116.38	\$ 3.8 \$ 0.5			13%	\$	905.66 117.74		44 1.17% 36 1.17%		13%		\$ 917.96 \$ 119.34	\$	2.30 1.60	1.36% 1.36%
Total Bill (including HST)		13%	3		13%		\$ 116.38 \$ 1,011.60	\$ 0.5			13%	\$	1.023.40	\$ 11			13%		\$ 119.34 \$ 1.037.30	\$	3.90	1.36%
Provincial Rebate		31.8%	5	283.45	31.8%		\$ 284.68	\$ 1.2			31.8%	s	288.00	\$ 3			31.8%		\$ 291.91	S	3.91	1.36%
Total Bill on TOU (incl Prov. Re	bate)		\$	723.77			\$ 726.92	\$ 3.1	0.43%			\$	735.40	\$ 8	48 1.17%				\$ 745.39	\$	9.99	1.36%
Total Bill on RPP (before Taxes)		9	933.50			\$ 937.37	\$ 3.8	B 0.42%	-		•	947.81	\$ 10	44 1.11%	- 7			\$ 960.11	s	2.30	1.30%
HST (belore raxes	,	13%	9	121.35	13%		\$ 121.86	\$ 0.5			13%	s	123.22		36 1.11%		13%		\$ 124.81	\$	1.60	1.30%
Total Bill (including HST)			\$	1,054.85			\$ 1,059.23	\$ 4.3	B 0.42%			\$	1,071.03	\$ 11	80 1.11%				\$ 1,084.93	\$	3.90	1.30%
Provincial Rebate		31.8%	\$	296.85	31.8%		\$ 298.08	\$ 1.2			31.8%	\$	301.40	\$ 3			31.8%		\$ 305.32	\$	3.91	1.30%
Total Bill on RPP (incl Prov. Rel	bate)		\$	758.00			\$ 761.15	\$ 3.1	5 0.42%	-		\$	769.62	\$ 8	48 1.11%	-			\$ 779.61	\$	9.99	1.30%
										_						_						
Loss Factor (%)		3.3500%	1		3.3800%	l				L	3.3800%					L	3.3800%	1				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000

GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

5,000 kWh May 1 - October

Part Part				Current Bo	ard-Approve	d			024 Propose	d	Ir	npact 202	24 vs 2023		2	025 Propos	ed	1 [Impact 202	5 vs 2024
Seminy Service Charge Semi																		1 🗀	,	1
inter Nation Flower Plane Andors Reference Andors of Calman per With \$ 0.0050 \$ 0.		Charge Unit		(\$)		(\$)		(\$)		(\$)	\$ C	hange	% Change		(\$)		(\$)		\$ Change	% Change
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New North Control Pale per W/h S	Smart Meter Rate Adder				1 5	5 -			1	\$ -	\$	-				1	\$ -	\$	-	
Laber Foliage Calculation for Genomic per WhYh S	Rate Rider Calculation for Gain ar	reper kWh		-		3 -	\$	-		\$ -		-			-			\$	-	
Intelligentiary Valuement Rate per NVh S	Rate Rider Calculation for PILs			-				-				-			-					
Part March Proposition Part P	Rate Rider Calculation for Generic	per kWh	\$	-			\$	-				-		\$	-	5000				
Mart Martin Right Clark Park With S												-				1				
RAM Rate Rider per kWh per k		per kWh	\$	0.0250			\$	0.0313				5.50	3.64%	\$	0.0321					2.569
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Secretary Secr											9							1 0	-	
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Salamones (excluding Global Adj.) Soo0 S S S S S S S S S																				
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TSTS - Line and random per kWh		ner kWh	s	0.0071	5168	36.69	\$	0.0071	5169	\$ 36.70	\$		0.00%	S	0.0071	5169	\$ 36.70	s		0.00%
ransformation Connection	RTSR - Line and						-				1							1 1		
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Stage Child Stage Child Stage Stag	including Sub-Total B)					233.09				\$ 265.64	э	6.35	2.45%				\$ 270.30	•	4.66	1./57
Second S		per kWh	\$	0.0034	5168	17.57	\$	0.0034	5160	¢ 17.57	e	_	0.00%	\$	0.0034	5160	¢ 17.57			0.009
Solida S					0.00	11.01			0100	v 17.07	1		0.0070			0.00	• 11.01	"	•	0.007
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HST 13% \$ 115.88 13% \$ 120.16 \$ 0.83 0.69% \$ 13.00 5	:nergy - RPP - Her 2		Þ	0.1390	4250 3	5 590.75	3	0.1390	4250	\$ 590.75	э	-	0.00%	9	0.1390	4250	\$ 590.75)	-	0.00
Total Bill (including HST) S 1,007.22 S 1,044.50 S 7.20 0.69% S 1,049.79 S 5.29 0.5 Provincial Rebate S 723.77 S 750.66 S 5.17 0.69% S 743.61 S 74	otal Bill on TOU (before Taxes	5)				891.35	г			\$ 924.33	\$	6.37	0.69%				\$ 929.01	\$	4.68	0.51
Provincial Rebate 31.8% \$ 283.45 31.8% \$ 203.94 \$ 2.03 0.69% 31.8% \$ 2.05.43 \$ 31.80 0.5	HST			13%		115.88		13%		\$ 120.16	\$	0.83	0.69%		13%		\$ 120.77	\$	0.61	0.519
State Stat	Total Bill (including HST)					1,007.22				\$ 1,044.50	\$	7.20	0.69%				\$ 1,049.79	\$	5.29	0.519
obstabilition RPP (before Taxes) \$ 933.50 \$ 966.48 \$ 6.37 0.66% \$ 971.16 \$ 4.68 0.4 HST 13% \$ 121.35 13% \$ 125.64 \$ 0.83 0.66% 13% \$ 126.25 \$ 0.61 0.41 Total Bill (including HST) \$ 1.064.85 \$ 1.092.13 \$ 7.20 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.092.13 \$ 7.20 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 5.29 0.66% \$ 1.097.41 \$ 1.097.41 \$ 1.097.41 \$ 1.097.41 \$ 1.097.41 \$ 1.097.41	Provincial Rebate			31.8%		283.45		31.8%		\$ 293.94	\$	2.03	0.69%		31.8%		\$ 295.43	s	1.49	0.519
otal Bill on RPP (before Taxes) \$ 933.50 \$ 966.48 \$ 6.37 0.66% \$ 971.16 \$ 4.68 0.4 HST 13% \$ 121.35 13% \$ 125.64 \$ 0.83 0.66% 13% \$ 126.25 \$ 0.61 0.4 Total Bill (including HST) \$ 1.092.41 \$ 1.092.13 \$ 7.20 0.66% \$ 1.097.41 \$ 5.29 0.61 0.4 Provincial Rebate 31.8% \$ 296.85 31.8% \$ 307.34 \$ 2.03 0.66% \$ 31.8% \$ 308.83 \$ 1.49 0.4 otal Bill on RPP (incl Prov. Rebate) \$ 786.00 \$ 784.78 \$ 5.17 0.66% \$ 786.58 \$ 3.80 0.4	otal Bill on TOU (incl Prov. Re	bate)				723.77				\$ 750.56	\$	5.17	0.69%				\$ 754,36	S	3.80	0.519
HST 13% \$ 121.35 13% \$ 1.25.64 \$ 0.83 0.66% \$ 1.3% \$ 1.26.25 \$ 0.61 0.4 Total Bill (including HST) \$ 1.092.13 \$ 7.20 0.66% \$ 1.094.13 \$ 7.20 0.66% \$ 1.097.41 \$ 5.29 0.4 Total Bill (including HST) \$ 206.85 31.8% \$ 307.34 \$ 2.03 0.66% \$ 31.8% \$ 308.83 \$ 1.49 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0			_																	
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Provincial Robate 31.8% \$ 296.85 31.8% \$ 307.34 \$ 2.03 0.66% \$ 31.8% \$ 308.83 \$ 1.49 0.44			1	13%				13%							13%					
otal Bill on RPP (inci Prov. Rebate) \$ 758.00 \$ 784.78 \$ 5.17 0.66% \$ 788.58 \$ 3.80 0.4			1																	
				31.8%				31.8%			\$				31.8%			\$		0.489
nes Fartor (%) 3 3500% 3 3500%	otal Bill on RPP (incl Prov. Re	bate)				758.00				\$ 784.78	\$	5.17	0.66%	L			\$ 788.58	\$	3.80	0.489
nes Factor (%) 3 3500% 3 3500% 3 3500%																				
	ose Eactor (%)			3 35000/	T			3 38000/	1						3 38000	1				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component contributes consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, the to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 30 of 56

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

nsumption 10,000 kWh May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

			Current B	oard-Appro	ved	Г		2021 Propos	sed		г	Impact 20:	21 vs 2020			2022 Propos	ed		Impact 20	22 vs 2021
			Rate	Volume	Charge		Rate	Volume	-	Charge	Т	impuot 20	21 10 2020		Rate	Volume	Charge		impuot 20	10 101
	Charge Unit		(\$)		(\$)	L	(\$)			(\$)		\$ Change	% Change		(\$)		(\$)		Change	% Change
Monthly Service Charge Smart Meter Rate Adder	Monthly	\$	19.3200	1	\$ 19.32 \$ -	\$	20.6100		\$	20.61	\$	1.29	6.68%	\$	22.0300		\$ 22.03 \$ -	\$	1.42	6.89%
Rate Rider Calculation for Gain an	ner kWh	s	_	10000	s -	s			S	1 1	S			s	_		\$ - \$ -	S	-	
	per kWh	s	-	10000	š -	s	-		s	-	s	-		s	-		s -	s	-	
Rate Rider Calculation for Generic	per kWh	\$	-	10000	\$ -	\$	-	10000	\$	-	\$	-		\$	-	10000	\$ -	\$	-	
					\$ -				\$	-	\$	-					\$ -	\$	-	
Distribution Volumetric Rate	per kWh	\$	0.0250		\$ 250.00	\$	0.0267		\$	267.00	\$	17.00	6.80%	\$	0.0285	10000		\$	18.00	6.74%
Smart Meter Disposition Rider LRAM Rate Rider	per kWh	s			\$ - \$ -	s	0.00060		\$	6.00	\$	6.00		s	0.0006		\$ - \$ 6.00	\$		0.00%
LRAW Rate Ridel	pei kvvii	٥		10000	s -	φ	0.00000		S	0.00	S	0.00		٠	0.0000		\$ 0.00	S	-	0.00%
				10000	\$ -			10000	\$	-	\$	-				10000	\$ -	\$	-	
				10000	\$ -				\$	-	\$	-					\$ -	\$	-	
B (10/1)		_		10000	\$ -			10000	\$	-	\$	-				10000	\$ -	\$	-	
Deferral/Variance Account Disposition Rate Rider Group 2	per kWh	\$	0.0010	10000	\$ 10.00	-\$	0.0005	10000		5.00	-S	15.00	-150.00%	-s	0.0005	10000 -	\$ 5.00	s		0.00%
Disposition Rate Rider Group 2				10000	\$ 10.00	-9	0.0003	10000	-9	5.00	-9	15.00	- 130.00%	-9	0.0003	10000 -	\$ 5.00	3	-	0.00%
				10000	s -			10000	\$	-	\$	-				10000	s -	\$	-	
				10000	\$ -			10000	\$	-	\$	-					\$ -	\$	-	
Sub-Total A (excluding pass thr		-S	0.0002		\$ 279.32	_	0.00060		\$	288.61	\$	9.29	3.33%				\$ 308.03	\$	19.42	6.73%
Deferral/Variance Account Disposition Rate Rider Group 1	per kWh	-5	0.0002	10000	-\$ 2.00	-\$	0.00060	10000	-8	6.00	-s	4.00	200.00%	-s	0.0006	10000 -	\$ 6.00	s		0.00%
Dispositor rate rate creap r				10000	2.00			10000	•	0.00	Ť	4.00	200.0070	•	0.0000	10000	0.00	•		0.0070
Deferral / Variance Accounts	per kWh	\$	-		_				١.								_			
Balances (excluding Global Adj.) - NON-WMP				10000	\$ -	\$	-	10000	\$	-	\$	-		\$	-	10000	\$ -	\$	-	
- NON-WMP				10000	s -			10000	s	_	s	_				10000	s -	s	_	
Low Voltage Service Charge	per kWh	\$	0.00006		\$ 0.62	\$	0.00006		\$	0.62	s	0.00	0.03%	s	0.00006		\$ 0.62	s	-	0.00%
Line Losses on Cost of Power		\$	0.1276	335	\$ 42.74	\$			\$	43.12	\$	0.38	0.90%	\$	0.1276	338	\$ 43.12	\$	-	0.00%
Smart Meter Entity Charge	Monthly	\$	0.5700	1	\$ 0.57	\$	0.5700	1	\$	0.57	\$	-	0.00%	\$	0.5700	1	\$ 0.57	\$	-	0.00%
Sub-Total B - Distribution (includes Sub-Total A)					\$ 321.25				\$	326.92	\$	5.67	1.77%				\$ 346.34	\$	19.42	5.94%
RTSR - Network	per kWh	s	0.0071	10335	\$ 73.38	S	0.0071	10338	s	73.40	s	0.02	0.03%	S	0.0071	10338	\$ 73.40	s	-	0.00%
RTSR - Line and	per kWh	s	0.0050	10335	\$ 51.68	s	0.0050	10338	s	51.69	s	0.01	0.03%	s	0.0050	10338	\$ 51.69	s	_	0.00%
Transformation Connection	pei kvvii	Ÿ	0.0030	10000	9 31.00	Ψ	0.0000	10000	Ÿ	31.03	ľ	0.01	0.0070	ų.	0.0000	10330	ψ 51.03	9		0.0070
Sub-Total C - Delivery (including Sub-Total B)					\$ 446.30				\$	452.01	\$	5.71	1.28%				\$ 471.43	\$	19.42	4.30%
Wholesale Market Service	per kWh	S	0.0034			S	0.0034				Η.			S	0.0034			-		
Charge (WMSC)	•	-		10335	\$ 35.14			10338	\$	35.15	\$	0.01	0.03%			10338	\$ 35.15	\$	-	0.00%
Rural and Remote Rate	per kWh	\$	0.0005	10335	\$ 5.17	\$	0.0005	10338	s	5.17	s	0.00	0.03%	\$	0.0005	10338	\$ 5.17	s	_	0.00%
Protection (RRRP)		_									1.							1		
Standard Supply Service Charge TOU - Off Peak	Monthly	\$	0.2500	6500	\$ 0.25 \$ 656.50	\$			\$	0.62 656.50	\$	0.37	148.00% 0.00%	\$	0.6400		\$ 0.64 \$ 656.50	\$	0.02	3.23% 0.00%
TOU - Mid Peak		\$	0.1440		\$ 244.80	\$				244.80	\$		0.00%	\$	0.1440	1700		s	-	0.00%
TOU - On Peak		\$	0.2080		\$ 374.40	\$			\$	374.40	\$		0.00%	\$	0.2080	1800		\$	-	0.00%
Energy - RPP - Tier 1		\$	0.1190	750	\$ 89.25	\$			\$	89.25	\$	-	0.00%	\$	0.1190	750		\$	-	0.00%
Energy - RPP - Tier 2		\$	0.1390	9250	\$ 1,285.75	\$	0.1390	9250	\$	1,285.75	\$	-	0.00%	\$	0.1390	9250	\$ 1,285.75	\$	-	0.00%
Total Bill on TOU (before Taxes)				\$ 1,762.56				\$	1,768.65	\$	6.09	0.35%				\$ 1,788.09	\$	19.44	1.10%
HST			13%		\$ 229.13		13%		\$	229.92	\$		0.35%		13%		\$ 232.45	\$	2.53	1.10%
Total Bill (including HST) Provincial Rebate			31.8%		\$ 1,991.69		04.00/		\$	1,998.57	\$		0.35%		04.00/		\$ 2,020.54	\$	21.97	1.10%
	L-4-\		31.6%		\$ 560.49 \$ 1.431.20		31.8%		\$	562.43	S	1.94	0.35%		31.8%		\$ 568.61	\$	6.18	1.10%
Total Bill on TOU (incl Prov. Rel					\$ 1,431.20				\$	1,436.14	\$	4.95	0.35%				\$ 1,451.93	\$	15.79	1.10%
Total Bill on RPP (before Taxes)				\$ 1,861.86				\$	1,867.95	\$	6.09	0.33%				\$ 1,887.39	\$	19.44	1.04%
HST			13%		\$ 242.04		13%		\$	242.83	\$		0.33%		13%		\$ 245.36	\$	2.53	1.04%
Total Bill (including HST) Provincial Rebate			31.8%		\$ 2,103.90 \$ 592.07		24 00/		\$	2,110.78 594.01	\$	6.88 1.94	0.33%		24 00/		\$ 2,132.75 \$ 600.19	\$	21.97 6.18	1.04%
Total Bill on RPP (incl Prov. Ret	hato)		31.070		\$ 592.07 \$ 1.511.83		31.8%		\$	1,516,77	\$	1.94 4.95	0.33%		31.8%		\$ 600.19 \$ 1,532,56	\$	15.79	1.04%
Total Bill Oll REE (IIICI PROV. Rei	vaid)				9 1,011.03				Ş	1,010.77	\$	4.35	0.33%				9 1,552.56	3	15.79	1.04%
		_	0.05000/			_	0.000001		_					_	0.000001			_		
Loss Factor (%)		<u> </u>	3.3500%			<u> </u>	3.3800%								3.3800%					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge's" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000

GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A UPDATED May 5, 2020 Page 31 of 56

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

Consumption 10,000 kWh May 1 - October 31

			Board-Approv	/ed		2023 Propose	d	Impact 20	23 vs 2022		2	2024 Proposed			Impact 202	24 vs 2023			2025 Propose	d	In	pact 2025	vs 2024
		Rate	Volume	Charge	Rate	Volume	Charge				Rate	Volume	Charge		۵.			Rate	Volume	Charge			
Monthly Service Charge	Charge Unit Monthly	(\$) \$ 19.3200	- 1	(\$) \$ 19.32	(\$) \$ 23.3100	1 5	(\$) 23.31	\$ Change \$ 1.28	% Change 5.81%		(\$) 3 24.1600	1 \$	(\$) 24.16	\$ S	Change 0.85	% Change 3.65%	9	(\$) \$ 24.8200	1 6	(\$) 24.82	\$ C	hange 0.66	% Change 2.73%
Smart Meter Rate Adder	WOITHIN	\$ 19.3200		\$ 19.32 \$ -	\$ 23.3100	1 1		\$ 1.20	3.0170	*	24.1000	1 \$	24.10	s	0.00	3.03%	4	p 24.0200	1 \$	24.02	s s	0.00	2.1370
Rate Rider Calculation for Gain an	x per kWh	s -	10000	\$ -	\$ -	10000	-	\$ -		5		10000 \$	-	\$	-		9	\$ -	10000 \$	-	\$	-	
Rate Rider Calculation for PILs	per kWh	\$ -	10000	\$ -	\$ -	10000 \$	-	\$ -		5	-	10000 \$	-	\$	-		9	\$ -	10000 \$	-	\$	-	
Rate Rider Calculation for Generic	per kWh	\$ -	10000	\$ -	\$ -	10000 \$	-	\$ -		5	-	10000 \$	-	\$	-		9	\$ -	10000 \$	-	\$	-	
			1	\$ -		1 \$		\$ -				1 \$		\$					1 \$		\$		
Distribution Volumetric Rate	per kWh	\$ 0.0250	10000		\$ 0.0302	10000 \$		\$ 17.00	5.96%	3	0.0313	10000 \$	313.00	\$	11.00	3.64%	9	\$ 0.0321	10000 \$	321.00	\$	8.00	2.56%
Smart Meter Disposition Rider LRAM Rate Rider	per kWh	e .	10000 10000		e .	10000 \$		\$ - -\$ 6.00	-100.00%	4		10000 \$ 10000 \$		9	-		9	s -	10000 \$ 10000 \$	-	9	-	
ETONI I (die I (dei	per Kvvii	•	10000			10000 \$		\$ -	-100.0070	,	, -	10000 \$		s	- 1		4	, -	10000 \$	-	s		
			10000			10000 8	-	š -				10000 S	-	s	-				10000 \$	-	s	-	
			10000			10000	-	\$ -				10000 \$	-	\$	-				10000 \$	-	\$	-	
			10000	\$ -		10000 \$	-	\$ -				10000 \$	-	\$	-				10000 \$	-	\$	-	
Deferral/Variance Account	per kWh	\$ 0.0010			_													_					
Disposition Rate Rider Group 2			10000	\$ 10.00	\$ -	10000 \$	-	\$ 5.00	-100.00%	5	-	10000 \$	-	\$	-		9	\$ -	10000 \$	-	\$	-	
			10000	s -		10000 5		s -				10000 \$	_	s					10000 \$	_	s	_	
			10000	\$ -		10000 \$	-	\$ -				10000 \$	-	\$	-				10000 \$		\$	-	
Sub-Total A (excluding pass the				\$ 279.32		5	325.31	\$ 17.28	5.61%			\$	337.16	\$	11.85	3.64%			\$	345.82	\$	8.66	2.57%
Deferral/Variance Account Disposition Rate Rider Group 1	per kWh	-\$ 0.0002	10000	-\$ 2.00	e	10000 8		\$ 6.00	-100.00%			10000 S	_	s	_		5	s -	10000 S				
Disposition Rate Rider Group 1			10000	·\$ 2.00	• -	10000	, -	\$ 0.00	-100.00%	*	, -	10000 \$	-	3	-		4	-	10000 \$	-	Þ	-	
Deferral / Variance Accounts	per kWh	\$ -																					
Balances (excluding Global Adj.)			10000	\$ -	\$ -	10000 \$	-	\$ -		\$	-	10000 \$	-	\$	-		9	\$ -	10000 \$	-	\$	-	
- NON-WMP																					_		
Low Voltage Service Charge	per kWh	\$ 0.00006	10000 10,335	\$ - \$ 0.62	\$ 0.00006	10000 \$		\$ - \$ -	0.00%	4	0.00006	10000 \$ 10,338 \$	0.62	5	-	0.00%	5	\$ 0.00006	10000 \$ 10,338 \$	0.62	\$	-	0.00%
Line Losses on Cost of Power	perkwii	\$ 0.0000	335		\$ 0.00006	338 \$		\$ -	0.00%	4	0.1276	338 \$	43.12	s	- 1	0.00%	9		338 \$		\$	- 1	0.00%
Smart Meter Entity Charge	Monthly	\$ 0.5700	1		\$ 0.5700	1 5		\$ -	0.00%		0.5700	1 \$	0.57	\$	-	0.00%	9		1 \$	0.57	\$	-	0.00%
Sub-Total B - Distribution				\$ 321.25		5	369.62	\$ 23.28	6.72%			s	381.47	s	11.85	3.21%			s	390.13	s	8.66	2.27%
(includes Sub-Total A)		\$ 0.0071	10335		\$ 0.0071	40000					0.0071	40000	73.40	s		0.00%	-	\$ 0.0071	10338 S		-		
RTSR - Network RTSR - Line and	per kWh				\$ 0.0071	10338		\$ -	0.00%			10338 \$		\$	-		5				\$	-	0.00%
Transformation Connection	per kWh	\$ 0.0050	10335	\$ 51.68	\$ 0.0050	10338	51.69	\$ -	0.00%	3	0.0050	10338 \$	51.69	\$	-	0.00%	5	\$ 0.0050	10338 \$	51.69	\$	-	0.00%
Sub-Total C - Delivery				s 446.30			494.71	\$ 23,28	4.94%			s	506.56	s	11.85	2.40%			5	515.22	_	8.66	1.71%
(including Sub-Total B)				\$ 446.30		3	494.71	\$ 23.28	4.94%			•	506.56	•	11.85	2.40%			>	515.22	Þ	8.66	1.71%
Wholesale Market Service	per kWh	\$ 0.0034	10335	\$ 35.14	\$ 0.0034	10338	35.15	\$ -	0.00%	5	0.0034	10338 \$	35.15	\$	-	0.00%	9	\$ 0.0034	10338 \$	35.15	\$	-	0.00%
Charge (WMSC) Rural and Remote Rate	per kWh	\$ 0.0005			\$ 0.0005			· ·			0.0005			1			5	\$ 0.0005			'		
Protection (RRRP)	perkwii	\$ 0.0005	10335	\$ 5.17	\$ 0.0005	10338	5.17	\$ -	0.00%	*	0.0003	10338 \$	5.17	\$	-	0.00%	4	\$ 0.0003	10338 \$	5.17	\$	-	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.6600	1 \$	0.66	\$ 0.02	3.13%	5	0.6800	1 \$	0.68	\$	0.02	3.03%	5	\$ 0.7000	1 \$	0.70	\$	0.02	2.94%
TOU - Off Peak		\$ 0.1010	6500		\$ 0.1010	6500		\$ -	0.00%		0.1010	6500 \$	656.50	\$	-	0.00%	\$		6500 \$	656.50	\$	-	0.00%
TOU - Mid Peak		\$ 0.1440	1700		\$ 0.1440	1700 \$		\$ -	0.00%		0.1440	1700 \$	244.80	\$	-	0.00%	5		1700 \$	244.80	\$	-	0.00%
TOU - On Peak		\$ 0.2080	1800		\$ 0.2080	1800 \$		\$ -	0.00%		0.2080	1800 \$	374.40	\$	-	0.00%	5		1800 \$	374.40	\$	-	0.00%
Energy - RPP - Tier 1		\$ 0.1190 \$ 0.1390	750 9250		\$ 0.1190 \$ 0.1390	750 \$ 9250 \$		\$ - \$ -	0.00%		0.1190 0.1390	750 \$ 9250 \$	89.25 1.285.75	\$	-	0.00%	9		750 \$ 9250 \$	89.25 1.285.75	\$	-	0.00%
Energy - RPP - Tier 2		\$ 0.1390	9250		\$ 0.1390	9250 3	1,285.75	1 4		3	0.1390	9250 \$,	٥	-		3	b 0.1390	9250 \$		Þ		
Total Bill on TOU (before Taxes	5)			\$ 1,762.56		\$	1,811.39	\$ 23.30	1.30%			\$	1,823.26	\$	11.87	0.66%			\$	1,831.94	\$	8.68	0.48%
HST		13%		\$ 229.13	13%	1 15	235.48	\$ 3.03	1.30%		13%	\$	237.02	\$	1.54	0.66%		13%	\$	238.15	\$	1.13 9.81	0.48%
Total Bill (including HST) Provincial Rebate		31.8%		\$ 1,991.69 \$ 560.49	31.8%		_,	\$ 26.33 \$ 7.41	1.30%			\$	2,060.28	\$	13.41	0.66%			\$	_,	\$	2.76	0.48%
Total Bill on TOU (incl Prov. Re	hato)	31.6%		\$ 560.49 \$ 1,431.20	31.8%	3	576.02 1.470.85	\$ 7.41 \$ 18.92	1.30%		31.8%	\$	579.80 1.480.48	5	3.77 9.64	0.66%		31.8%	\$	582.56 1.487.53	3	7.05	0.48%
				, , , , , , , , , , , , , , , , , , , ,			, , , , , ,			-		3		3					3		3		
Total Bill on RPP (before Taxes HST	9	13%		\$ 1,861.86 \$ 242.04	13%		1,910.69 248.39	\$ 23.30 \$ 3.03	1.23% 1.23%		13%	\$ S	1,922.56 249.93	\$	11.87 1.54	0.62% 0.62%		13%	\$	1,931.24 251.06	\$	8.68 1.13	0.45% 0.45%
Total Bill (including HST)		13%		\$ 2.103.90	1370		2,159.08	\$ 26.33	1.23%		1370	s	2.172.49	s	13.41	0.62%		1370	s	2,182.30	ŝ	9.81	0.45%
Provincial Rebate		31.8%		\$ 592.07	31.8%		607.60	\$ 7.41	1.23%		31.8%	s	611.37	s	3.77	0.62%		31.8%	s	614.13	s	2.76	0.45%
Total Bill on RPP (incl Prov. Rel	bate)			\$ 1,511.83	2070	5	1,551.48	\$ 18.92	1.23%		2270	\$	1,561.12	\$	9.64	0.62%		2370	\$	1,568.16	\$	7.05	0.45%

3.3800%

3.3800%

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "unarge s" columns provide breakdowns of the amounts that each bill component contributes to consumption level at existing and proposed rates.

3.3500%

3.3800%

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Loss Factor (%)

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

Consumption 15,000 kWh May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Consumption	" _	13,000					30 (Select this radio but							1					
		-	Rate	ent Board-/	Approved Charge	Rate	2021 Propos Volume	Charge	Impact	2021 vs 2020	Rate	2022 Propo Volume	Charge	Impact	2022 vs 2021	Rate	2023 Propos Volume	Sed Charge	Impact 2	023 vs 2022
	Charge Unit		(\$)	Volume	(\$)	(\$)	Volume	(\$)	\$ Change	% Change	(\$)	Volume	(\$)	\$ Change	% Change	(\$)	Volume	(\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$	19.3200	1	\$ 19.32	\$ 20.6100	1 5		\$ 1.2		\$ 22.0300	1	\$ 22.03	\$ 1.		\$ 23.3100	1 :	\$ 23.31	\$ 1.28	
Smart Meter Rate Adder Rate Rider Calculation for Gain ar				1	\$ -		1 5		\$ -			1	\$ -	\$ -			1 :	\$ -	\$ -	
Rate Rider Calculation for Gain ar Rate Rider Calculation for PILs	per kWh	S	-	15000 15000	\$ - \$ -	s -	15000 S		s -		\$ - \$ -	15000 15000	s -	s -		s -	15000 S	s -	s -	
Rate Rider Calculation for Generic		s	-	15000	\$ -	\$ -	15000 \$		\$ -		\$ -	15000		\$ -		\$ -		\$ -	\$ -	
				1	\$ -		1 5		\$ -			1	\$ -	\$ -			1 :	\$ -	\$ -	
Distribution Volumetric Rate Smart Meter Disposition Rider	per kWh	\$	0.0250	15000 15000	\$ 375.00	\$ 0.0267	15000 S		\$ 25.5	0 6.80%	\$ 0.0285	15000 15000	\$ 427.50	\$ 27.	0 6.74%	\$ 0.0302	15000	\$ 453.00	\$ 25.50	5.96%
LRAM Rate Rider	per kWh	s	-	15000	s -	\$ 0.00060	15000 3		\$ 9.0	0	\$ 0.0006	15000	\$ 9.00	s -	0.00%	s -		s -	\$ 9.00	-100.00%
	·			15000			15000 \$		\$ -			15000	\$ -	\$ -				\$ -	\$ -	
				15000	\$ -		15000 \$		\$ -			15000		\$ - \$			15000	\$ -	\$ -	
				15000 15000			15000 S		\$ -			15000 15000		\$ -				\$ - \$ -	\$ - \$ -	
Deferral/Variance Account	per kWh	\$	0.0010	10000	•				,			10000		•			10000	•	Ť	
Disposition Rate Rider Group 2				15000	\$ 15.00	-\$ 0.0005	15000 -	7.50	-\$ 22.5	0 -150.00%	-\$ 0.0005	15000	-\$ 7.50	\$ -	0.00%	\$ -	15000	\$ -	\$ 7.50	-100.00%
				15000	s -		15000 \$					15000	•				15000	s -	•	
				15000			15000 \$		\$ -			15000		\$ -			15000	s -	s -	
Sub-Total A (excluding pass th					\$ 409.32				\$ 13.2	9 3.25%			\$ 451.03	\$ 28.	6.72%			\$ 476.31	\$ 25.21	5.60%
Deferral/Variance Account Disposition Rate Rider Group 1	per kWh	-\$	0.0002	15000	-\$ 3.00	-\$ 0.00060	15000 -5	9.00	-\$ 6.0	0 200.00%	-\$ 0.0006	15000	-s 9.00		0.00%		15000	ė	\$ 9.00	-100.00%
Disposition Rate Rider Group 1				15000	-\$ 3.00		13000 -	9.00	-\$ 0.C	200.00%	-\$ 0.0006	15000	-\$ 9.00	\$ -	0.00%	3 -	15000	-	\$ 9.00	-100.00%
Deferral / Variance Accounts Balances (excluding Global Adj.) -	per kWh	\$	-	15000	•	s -	15000 \$				s -	15000	•	s -		s -	15000	•	s -	
NON-WMP				15000	\$ -	\$ -	15000 3	-	\$ -		\$ -	15000	\$ -	\$ -		5 -	15000 ;	\$ -	\$ -	
				15000	\$ -		15000 \$	-	\$ -			15000	\$ -	\$ -			15000	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$	0.00006	15,503	\$ 0.93	\$ 0.00006	15,507		\$ 0.0	0.03%	\$ 0.00006	15,507	\$ 0.93	\$ -	0.00%	\$ 0.00006		\$ 0.93	s -	0.00%
Line Losses on Cost of Power Smart Meter Entity Charge	Monthly	\$	0.1276 0.5700	503	\$ 64.10 \$ 0.57	\$ 0.1276 \$ 0.5700	507		\$ 0.5	7 0.90% 0.00%	\$ 0.1276 \$ 0.5700	507	\$ 64.68 \$ 0.57	\$ -	0.00%	\$ 0.1276 \$ 0.5700		\$ 64.68 \$ 0.57	\$ -	0.00%
Sub-Total B - Distribution	Mortally	3	0.5700		\$ 471.92	\$ 0.5700	1	479.79	\$ 7.8		\$ 0.5700		\$ 508.21	\$ 28.		9 0.5700		\$ 542.49	\$ 34.21	
(includes Sub-Total A)							,													
RTSR - Network RTSR - Line and Transformation	per kWh	\$	0.0071	15503	\$ 110.07	\$ 0.0071	15507		\$ 0.0		\$ 0.0071	15507		\$ -	0.00%	\$ 0.0071	15507		\$ -	0.00%
Connection	per kWh	\$	0.0050	15503	\$ 77.51	\$ 0.0050	15507	77.54	\$ 0.0	2 0.03%	\$ 0.0050	15507	\$ 77.54	\$ -	0.00%	\$ 0.0050	15507	\$ 77.54	\$ -	0.00%
Sub-Total C - Delivery					\$ 659.50			667.42	\$ 7.9	2 1.20%			\$ 695.84	\$ 28.	4.26%			\$ 730.12	\$ 34.21	4.93%
(including Sub-Total B) Wholesale Market Service	per kWh	\$	0.0034			\$ 0.0034					\$ 0.0034					\$ 0.0034			-	
Charge (WMSC)	poi kviii	3	0.0034	15503	\$ 52.71	\$ 0.0034	15507	52.72	\$ 0.0	2 0.03%	\$ 0.0034	15507	\$ 52.72	\$ -	0.00%	\$ 0.0054	15507	\$ 52.72	\$ -	0.00%
Rural and Remote Rate	per kWh	\$	0.0005	15503	\$ 7.75	\$ 0.0005	15507	7.75	\$ 0.0	0.03%	\$ 0.0005	15507	\$ 7.75	s -	0.00%	\$ 0.0005	15507	\$ 7.75	s -	0.00%
Protection (RRRP) Standard Supply Service Charge	Monthly	s	0.2500	10000	\$ 0.25	\$ 0.6200	1 5		\$ 0.3		\$ 0.6400	10007	\$ 0.64	s 0.		\$ 0.6600		\$ 0.66	\$ 0.00	
TOU - Off Peak	Monthly	Š	0.1010	9750		\$ 0.1010	9750		s -	0.00%	\$ 0.1010	9750	\$ 984.75	s -	0.00%	\$ 0.1010		\$ 984.75	\$ -	0.00%
TOU - Mid Peak		\$	0.1440	2550	\$ 367.20	\$ 0.1440	2550	367.20	\$ -	0.00%	\$ 0.1440	2550	\$ 367.20	\$ -	0.00%	\$ 0.1440	2550	\$ 367.20	\$ -	0.00%
TOU - On Peak Energy - RPP - Tier 1		\$	0.2080	2700 750	\$ 561.60 \$ 89.25	\$ 0.2080 \$ 0.1190	2700 S		\$ -	0.00%	\$ 0.2080 \$ 0.1190	2700 750		\$ -	0.00%	\$ 0.2080 \$ 0.1190		\$ 561.60 \$ 89.25	\$ -	0.00%
Energy - RPP - Her 1 Energy - RPP - Tier 2		S	0.1190	14250		\$ 0.1190	14250 5		\$ - \$ -	0.00%	\$ 0.1190			\$ -	0.00%	\$ 0.1190			s -	0.00%
		_	2200						10		7 2500	00		\$ 28.		2.1000			10 611	
Total Bill on TOU (before Taxes HST	5)		13%		\$ 2,633.76 \$ 342.39	13%	3	2,642.07 343.47	\$ 8.3 \$ 1.0		13%		\$ 2,670.51 \$ 347.17	\$ 28.		139	6	\$ 2,704.81 \$ 351.63	\$ 34.30 \$ 4.40	
Total Bill (including HST)			1070		\$ 2,976.15	10%			\$ 9.3		1070		\$ 3,017.68	\$ 32.		10.		\$ 3,056.44	\$ 38.76	
Provincial Rebate			31.8%		\$ 837.54	31.8%	5	840.18	\$ 2.6		31.8%		\$ 849.22	\$ 9.		31.89	6 :	\$ 860.13	\$ 10.9	1.28%
Total Bill on TOU (incl Prov. Re	bate)				\$ 2,138.62			2,145.36	\$ 6.7	4 0.32%			\$ 2,168.45	\$ 23.	9 1.08%			\$ 2,196.31	\$ 27.8	1.28%
Total Bill on RPP (before Taxes)				\$ 2,790.21			2,798.52	\$ 8.3				\$ 2,826.96	\$ 28.			1	\$ 2,861.26	\$ 34.30	
HST			13%	1	\$ 362.73	13%		363.81	\$ 1.0		13%		\$ 367.50	\$ 3.		139		\$ 371.96	\$ 4.46	
Total Bill (including HST) Provincial Rebate			31.8%		\$ 3,152.94 \$ 887.29	31.8%		3,162.33 889.93	\$ 9.3 \$ 2.6		31.8%		\$ 3,194.47 \$ 898.97	\$ 32. \$ 9.		31.89		\$ 3,233.22 \$ 909.88	\$ 38.76 \$ 10.9	1.21% 1.21%
Total Bill on RPP (incl Prov. Re	hate)		31.070		\$ 2.265.65	31.8%		2.272.40	\$ 6.7		31.8%		\$ 2,295,49	\$ 23.		31.87		\$ 2.323.34	\$ 10.9	
The state of the s	/				2,200.00			2,2,2,40	0.7	0.5076			2,200.40	¥ 25.	1.5276			2,020.04	1.0.	1.21/6
Loss Factor (%)			3.3500%	1		3.3800%	1				3.3800%					3.38009	6			
			5.000070	,		0.0000 /					0.0000 /0	_				0.00007	_			

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the Unarge \$ columns provide preakdowns of the amounts that each oill component contributes to the total monthly oill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS-50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service < 50 kW

TOU / non-TOU: TOU

Consumption 15,000 kWh May 1 - October 31

		Г	Curre	nt Board-	Apr	proved	- 1		2024 Prop	osec	i	Γ	h	mpact 202	24 vs 2023
			Rate	Volume	Ė	Charge		Rate	Volume		Charge	ı		•	
	Charge Unit		(\$)			(\$)		(\$)			(\$)		\$ C	Change	% Change
Monthly Service Charge	Monthly	\$	19.3200	1	\$	19.32		\$ 24.1600	1	\$	24.16	ı	\$	0.85	3.65%
Smart Meter Rate Adder				1	\$	-			1	\$	-		\$	-	
Rate Rider Calculation for Gain an	dper kWh	\$	-	15000	\$	-		\$ -	15000	\$	-		\$	-	
Rate Rider Calculation for PILs	per kWh	\$	-	15000	\$	-		\$ -	15000	\$	-		\$		
Rate Rider Calculation for Generic	per kWh	\$	-	15000	\$	-		\$ -	15000	\$	-		\$	-	
				1	\$	-			1	\$	-		\$	-	
Distribution Volumetric Rate	per kWh	s	0.0250	15000	s	375.00		\$ 0.0313	15000	\$	469.50		\$	16.50	3.64%
Smart Meter Disposition Rider		1		15000	s	-			15000		-		\$		
LRAM Rate Rider	per kWh	\$	_	15000	\$	_		\$ -	15000		_		\$	_	
		1		15000	Š	_			15000	š	_		Š	_	
				15000	Š				15000				Š	_	
				15000	Š	_			15000				Š		
				15000	S	-			15000	\$	-		S	-	
Deferral/Variance Account	per kWh	s	0.0010	15000	9	-			13000	3	-		Þ	-	
	per kvvn	3	0.0010	45000		45.00			45000	_					
Disposition Rate Rider Group 2				15000	\$	15.00		\$ -	15000	\$	-		\$	-	
										١.					
				15000	\$	-			15000		-		\$	-	
				15000	\$	-			15000		-		\$	-	
Sub-Total A (excluding pass thr		L.			\$	409.32				\$	493.66	Ļ	\$	17.35	3.64%
Deferral/Variance Account	per kWh	-\$	0.0002		1					1					
Disposition Rate Rider Group 1				15000	-\$	3.00		\$ -	15000	\$	-		\$	-	
Deferral / Variance Accounts	per kWh	\$	-												
Balances (excluding Global Adj.) -				15000	s	-		S -	15000	s	-		S	-	
NON-WMP															
				15000	s	_			15000	\$	_		\$	_	
Low Voltage Service Charge	per kWh	\$	0.00006	15.503	Š	0.93		\$ 0.00006	15,507	\$	0.93		Š	_	0.00%
Line Losses on Cost of Power	portern	\$	0.1276	503	š	64.10		\$ 0.1276	507	Š	64.68		Š	_	0.00%
Smart Meter Entity Charge	Monthly	s	0.5700	1	Š	0.57		\$ 0.5700	1	\$	0.57		\$	_	0.00%
Sub-Total B - Distribution	monthly	Ť	0.0700		Ť			0.0100				ŀ			
(includes Sub-Total A)					\$	471.92				\$	559.84		\$	17.35	3.20%
RTSR - Network	per kWh	\$	0.0071	15503	s	110.07		\$ 0.0071	15507	s	110.10	ı	\$	-	0.00%
RTSR - Line and Transformation															
Connection	per kWh	\$	0.0050	15503	\$	77.51		\$ 0.0050	15507	\$	77.54		\$	-	0.00%
Sub-Total C - Delivery					_							ŀ			
(including Sub-Total B)					\$	659.50				\$	747.47		\$	17.35	2.38%
Wholesale Market Service	per kWh	\$	0.0034					\$ 0.0034				ı			
Charge (WMSC)	por iterm	-	0.0004	15503	\$	52.71		0.0004	15507	\$	52.72		\$	-	0.00%
Rural and Remote Rate	per kWh	\$	0.0005					\$ 0.0005							
Protection (RRRP)	per kvvii	٦	0.0003	15503	\$	7.75		\$ 0.0005	15507	\$	7.75		\$		0.00%
	Mariable.	\$	0.2500		s	0.25		\$ 0.6800		s	0.68			0.02	3.03%
Standard Supply Service Charge	Monthly								1				\$		
TOU - Off Peak		\$	0.1010	9750	\$	984.75		\$ 0.1010	9750		984.75		\$	-	0.00%
TOU - Mid Peak		\$	0.1440	2550	\$	367.20		\$ 0.1440	2550		367.20		\$	-	0.00%
TOU - On Peak		\$	0.2080	2700	\$	561.60		\$ 0.2080	2700		561.60		\$	-	0.00%
Energy - RPP - Tier 1		\$	0.1190	750	\$	89.25		\$ 0.1190	750	\$	89.25		\$	-	0.00%
Energy - RPP - Tier 2		\$	0.1390	14250	\$	1,980.75		\$ 0.1390	14250	\$	1,980.75		\$	-	0.00%
T-4-1 PIU TOU (b-f T		_			_	0.000.70				_	0.700.40		_	47.07	0,64%
Total Bill on TOU (before Taxes HST	,	1	13%		\$	2,633.76 342.39		13%		\$	2,722.18 353.88	- [\$ S	17.37 2.26	0.64%
			13%					13%							
Total Bill (including HST)					\$	2,976.15				\$	3,076.06		\$	19.63	0.64%
Provincial Rebate			31.8%		\$	837.54		31.8%		\$	865.65		\$	5.52	0.64%
Total Bill on TOU (incl Prov. Rel	oate)				\$	2,138.62				\$	2,210.41		\$	14.10	0.64%
		_				2,790,21				s	2.878.63	Ŧ	_	17.37	0.61%
Total Bill on RPP (before Taxes))	1	4001		\$			4001					\$		
HST		1	13%		\$	362.73		13%		\$	374.22		\$	2.26	0.61%
Total Bill (including HST)		1			\$	3,152.94				\$	3,252.85		\$	19.63	0.61%
Provincial Rebate			31.8%		\$	887.29		31.8%		\$	915.40		\$	5.52	0.61%
Total Bill on RPP (incl Prov. Ret	oate)				\$	2,265.65				\$	2,337.45		\$	14.10	0.61%
		_							i						
Loss Factor (%)			3.3500%	l				3.3800%							

	tate	Volume		Charge	Г			Ī		Rate	Volume		Charge	П		
	(\$)			(\$)		\$ Change	% Change	L		(\$)			(\$)	L	\$ Change	% Change
\$ 24	4.1600	1	\$	24.16	\$	0.85	3.65%		\$	24.8200	1	\$	24.82		\$ 0.66	2.73%
		1	\$	-	\$	-					1	\$	-		\$ -	
\$	-	15000	\$	-	\$	-			\$	-	15000	\$	-		\$ -	
\$	-	15000	\$	-	\$	-			\$	-	15000	\$	-		\$ -	
\$	-	15000	\$	-	\$	-			\$	-	15000	\$	-		\$ -	
		1	\$	-	\$	-					1	\$	-		\$ -	
\$ 0	0.0313	15000	\$	469.50	\$	16.50	3.64%		\$	0.0321	15000	\$	481.50		\$ 12.00	2.56%
		15000	\$	-	\$	-					15000	\$	-		\$ -	
\$	-	15000	\$	-	\$	-			\$	-	15000	\$	-		\$ -	
		15000	\$	-	\$	-					15000	\$	-		\$ -	
		15000	\$	-	\$	-					15000	\$	-		\$ -	
		15000	\$	-	\$	-					15000	\$	-		\$ -	
		15000	\$	-	\$	-					15000	\$	-		\$ -	
\$	-	15000	\$	-	\$	-			\$	-	15000	\$	-		\$ -	
		15000	\$	-	\$	-					15000	\$	-		\$ -	
		15000	\$	-	\$	-					15000	\$	-		\$ -	
			\$	493.66	\$	17.35	3.64%	l				\$	506.32	П	\$ 12.66	2.56%
					Т			l						Т		
\$	-	15000	\$	-	\$	-			\$	-	15000	\$	-		\$ -	
\$	-	15000	\$	-	\$	-			\$	-	15000	\$	-		\$ -	
		15000	\$	-	\$	-					15000	\$	-		\$ -	
\$ 0.	00006	15.507	s	0.93	s	-	0.00%		s	0.00006	15.507	s	0.93		\$ -	0.00%
	0.1276	507	\$	64.68	\$	-	0.00%		\$	0.1276	507	\$	64.68		\$ -	0.00%
\$ (0.5700	1	\$	0.57	\$	-	0.00%		\$	0.5700	1	\$	0.57		\$ -	0.00%
			\$	559.84	\$	17.35	3.20%					\$	572.50		\$ 12.66	2.26%
\$ (0.0071	15507	\$	110.10	\$	-	0.00%	-	S	0.0071	15507	\$	110.10	ŀ	\$ -	0.00%
\$ (0.0050	15507	\$	77.54	\$	-	0.00%		\$	0.0050	15507	\$	77.54	L	\$ -	0.00%
			\$	747.47	\$	17.35	2.38%					\$	760.13		\$ 12.66	1.69%
\$ (0.0034	15507	s	52.72	s		0.00%	-	\$	0.0034	15507	s	52.72	t	s -	0.00%
		15507	3	52.72	3	-	0.00%				15507	5	52.72		> -	0.00%
\$ (0.0005	15507	\$	7.75	\$	_	0.00%		\$	0.0005	15507	\$	7.75		s -	0.00%
		15507	3	1.15	3	-	0.00%				15507	5	7.75			0.00%
\$ (0.6800	1	\$	0.68	\$	0.02	3.03%		\$	0.7000	1	\$	0.70		\$ 0.02	2.94%
	0.1010	9750	\$	984.75	\$	-	0.00%		\$	0.1010	9750	\$	984.75		\$ -	0.00%
	0.1440	2550	\$	367.20	\$	-	0.00%		\$	0.1440	2550	\$	367.20		\$ -	0.00%
	0.2080	2700	\$	561.60	\$	-	0.00%		\$	0.2080	2700	\$	561.60		\$ -	0.00%
\$ (0.1190	750	\$	89.25	\$	-	0.00%		\$	0.1190	750	\$	89.25		\$ -	0.00%
\$ (0.1390	14250	\$	1,980.75	\$	-	0.00%		\$	0.1390	14250	\$	1,980.75		\$ -	0.00%
			·									Ţ		-		
			\$	2,722.18	\$	17.37	0.64%					\$	2,734.86		\$ 12.68	0.47%
	13%		\$	353.88	\$	2.26	0.64%			13%		\$	355.53		\$ 1.65	0.47%
			\$	3,076.06	\$	19.63	0.64%					\$	3,090.39		\$ 14.33	0.47%
	31.8%		\$	865.65	\$	5.52	0.64%			31.8%		\$	869.69		\$ 4.03	0.47%
			\$	2,210.41	\$	14.10	0.64%					\$	2,220.71		\$ 10.30	0.47%
				2.878.63	\$	17.37	0.61%					\$	2.891.31	Ŧ	\$ 12.68	0.44%
	13%		\$	374.22	\$	2.26	0.61%			13%		\$	2,891.31 375.87		\$ 12.68 \$ 1.65	0.44%
	13%		\$	3,252.85	\$	19.63	0.61%			13%		\$	3,267.18		\$ 14.33	0.44%
	04.00/									04.00/						
	31.8%		\$	915.40	\$	5.52	0.61%			31.8%		\$	919.44		\$ 4.03	0.44%
			\$	2,337.45	\$	14.10	0.61%					\$	2,347.74	4	\$ 10.30	0.44%
3	3800%							Π		3.3800%						
								L								

2025 Proposed

Impact 2025 vs 2024

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

note that the "unarge" columns provide breakdowns of the amounts that each bill component contronsumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addit to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP

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Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 35 of 56

Appendix 2-W Bill Impacts

Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

Consumption 51,000 kWh May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Consumption	51,000	KWN .	May 1 - October 31	O Nov	ember 1 - April 30	(Select this radio button for	or application	ons filed after Oct 31)														
			rent Board-Ap			2021 Propos			Impact 2021 v	s 2020			022 Propos			Impact 2022	/s 2021			2023 Proposed			mpact 202	23 vs 2022
	Charge Unit	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)		S Change	% Change		Rate (\$)	Volume	Charge (\$)	s	Change	% Change		Rate (\$)	Volume	Charge (\$)	s c	Change	% Change
Monthly Service Charge	Monthly	\$ 200.0000	1 :	\$ 200.00	\$ 200.0000	1 5	200.00	\$	-	0.00%	\$	212.5100	1	\$ 212.51	\$	12.51	6.26%	\$	223.6000	1 \$	223.60	\$	11.09	5.22%
Smart Meter Rate Adder Rate Rider Calculation for Gain a			1 :	\$ - \$ -	_	1 5	-	\$	-		_		1 50	\$ - \$ -	\$	-				1 \$ 50 \$	-	\$	-	
Rate Rider Calculation for Gain a	per kW	s -	50 50	s -	S -	50 8	-	\$			\$		50	s -	s	- 1		\$		50 \$ 50 \$	1	\$	- 1	
Rate Rider Calculation for Generi		\$ -		\$ -	\$ -	50 \$	-	\$	-		\$	-	50	\$ -	\$	-		\$	-	50 \$	-	\$	-	
Distribution Volumentals Date		\$ 4.8760	1 50	\$ -	6 5 5070	1 S 50 S	- 075.40	\$	- 04.00	40.000/	_	5.9028	1	\$ -	\$	19.74	7.470/	\$	0.0040	1 \$ 50 \$	-	\$	47.04	6.07%
Distribution Volumetric Rate Smart Meter Disposition Rider	per kW	\$ 4.8760	51000	\$ 243.80 \$ -	\$ 5.5079	51000 \$	275.40	\$	31.60	12.96%	\$	5.9028	50 51000	\$ 295.14 \$ -	S S	19.74	7.17%	\$	6.2610	51000 \$	313.05	\$	17.91	6.07%
LRAM Rate Rider	per kW	s -	50	\$ -	-\$ 0.0176	50 -\$	0.88	-\$	0.88		-\$	0.0176	50	\$ 0.88	s	-	0.00%			50 \$	-	\$	0.88	-100.00%
			51000	\$ -		51000 \$	-	\$	-				51000		\$	-				51000 \$	-	\$	-	
			51000 51000	\$ - \$ -		51000 \$ 51000 \$	-	\$					51000 51000		s	- :				51000 \$ 51000 \$	-	\$		
			51000	\$ -		51000	-	\$	-				51000		s	-				51000 \$	-	\$	-	
Deferral/Variance Account	per kW	\$ 0.1717																						
Disposition Rate Rider Class 2			50	\$ 8.59	-\$ 0.2549	50 -\$	12.75	-\$	21.33	-248.46%	-\$	0.2548	50	\$ 12.74	\$	0.00	-0.04%	\$	-	50 \$	-	\$	12.74	-100.00%
			51000	\$ -		51000 \$	-	\$	-				51000		\$	-				51000 \$	-	\$	-	
			51000	\$ -		51000	-	\$	-				51000		\$					51000 \$		\$	-	
Sub-Total A (excluding pass the Deferral/Variance Account	rough) per kW	-\$ 0.0403		\$ 452.39			461.77	\$	9.39	2.07%	-			\$ 494.03	\$	32.26	6.99%	-		\$	536.65	\$	42.62	8.63%
Disposition Rate Rider Class 1			50 -	\$ 2.02	-\$ 0.18210	50 -\$	9.11	-\$	7.09	351.86%	-\$	0.1820	50	\$ 9.10	\$	0.01	-0.05%	\$	-	50 \$	-	\$	9.10	-100.00%
Deferral/Variance Account	per kWh	-\$ 0.0015																						
Disposition Rate Rider - Global			51000 -	\$ 76.50	\$ 0.0026	51000 \$	132.60	\$	209.10	-273.33%	\$	-	51000	s -	-\$	132.60	-100.00%	\$	-	51000 \$	-	\$	-	
Adjustment Deferral / Variance Accounts	per kW	-\$ 0.0247																						
Balances (excluding Global Adj.) -	poi kvi	-0.0247	50 -	\$ 1.24	-\$ 0.1053	50 -\$	5.27	-\$	4.03	326.32%	\$	-	50	s -	s	5.27	-100.00%	\$	-	50 \$	-	\$	-	
NON-WMP																								
Low Voltage Service Charge Line Losses on Cost of Power	per kW	\$ 0.02452		\$ 1.23 \$ -	\$ 0.02434	50 S	1.22	-\$	0.01	-0.73%	\$	0.02465	50 1,724	\$ 1.23 \$ -	\$	0.02	1.27%	\$	0.02494	50 \$ 1,724 \$	1.25	\$	0.01	1.18%
Smart Meter Entity Charge	Monthly	s -	1,709		s -	1,724	-	\$			\$	-	1,724	\$ -	s			\$	-	1,724 3		\$		
Sub-Total B - Distribution				\$ 373.86			581.22	s	207.36	55.46%				\$ 486.16	-s	95.05	-16.35%			s	537.90	s	51.73	10.64%
(includes Sub-Total A) RTSR - Network	per kW	\$ 2.9017	50	\$ 145.09	\$ 2.9017	50 5	145.09	\$	_	0.00%	S	2.9017	50		s	_	0.00%	\$	2.9017	50 S	145.09	\$		0.00%
RTSR - Line and Transformation	per kW	\$ 2.0474		\$ 102.37	\$ 2.0474	50 8		e		0.00%	6	2.0474	50		e		0.00%	\$	2.0474	50 S	102.37	ě	_	0.00%
Connection Sub-Total C - Delivery	poi kvv	3 2.04/4	30		3 2.0474	30 ,		Ψ	-		9	2.0474	30		,	-		Ψ	2.0474	30 \$		Ÿ		
(including Sub-Total B)			!	\$ 621.32		\$	828.67	\$	207.36	33.37%				\$ 733.62	-\$	95.05	-11.47%			\$	785.35	\$	51.73	7.05%
Wholesale Market Service	per kWh	\$ 0.0034	52709	\$ 179.21	\$ 0.0034	52724	179.26	\$	0.05	0.03%	\$	0.0034	52724	\$ 179.26	\$	-	0.00%	\$	0.0034	52724 \$	179.26	\$	-	0.00%
Charge (WMSC) Rural and Remote Rate	per kWh	\$ 0.0005			\$ 0.0005						s	0.0005						\$	0.0005					
Protection (RRRP)			52709	\$ 26.35		52724	26.36	\$	0.01	0.03%	_		52724	\$ 26.36	\$	-	0.00%			52724 \$	26.36	\$	-	0.00%
Standard Supply Service Charge		\$ 0.2500		\$ 0.25	\$ 0.6200	1 8	0.62	\$	0.37	148.00%	\$	0.6400	1	\$ 0.64	\$	0.02	3.23%	\$	0.6600	1 \$	0.66	\$	0.02	3.13%
Average IESO Wholesale Market	Price	\$ 0.1101	52709	\$ 5,803.21	\$ 0.1101	52724 \$	5,804.89	\$	1.68	0.03%	\$	0.1101	52724	\$ 5,804.89	\$	-	0.00%	\$	0.1101	52724 \$	5,804.89	\$	-	0.00%
								<u> </u>							<u> </u>							+		
Total Bill on TOU (before Taxes HST	5)	13%		\$ 6,630.34 \$ 861.94	13%		6,839.81 889.17	\$	209.47 27.23	3.16% 3.16%		13%		\$ 6,744.77 \$ 876.82	-\$ c	95.03 12.35	-1.39% -1.39%		13%	\$	6,796.53 883.55	\$	51.75 6.73	0.77% 0.77%
Total Bill (including HST)		10%		\$ 7,492.28	1070	Š	7,728.98	\$	236.70	3.16%		1070		\$ 7,621.59	-\$	107.39	-1.39%		1070	š	7,680.07	\$	58.48	0.77%
Provincial Rebate				\$ -		\$	-	\$	-					\$ -	\$	-				\$	-	\$	-	
Total Bill on TOU (incl Prov. Re	bate)			\$ 7,492.28		\$	7,728.98	\$	236.70	3.16%				\$ 7,621.59	-\$	107.39	-1.39%	_		\$	7,680.07	\$	58.48	0.77%
Total Bill on RPP (before Taxes	i)			\$ 827.13		\$	1,034.91	\$	207.79	25.12%				\$ 939.88	-\$	95.03	-9.18%			\$	991.63	\$	51.75	5.51%
HST Total Bill (including HST)		13%	1	\$ 107.53 \$ 934.66	13%	9	134.54 1,169.45	\$	27.01 234.80	25.12% 25.12%		13%		\$ 122.18 \$ 1,062.06	-\$ -\$	12.35 107.39	-9.18% -9.18%		13%	\$	128.91 1,120.55	\$	6.73 58.48	5.51% 5.51%
Provincial Rebate				\$ 934.00		9	1,109.45	\$	234.00	23.1276				\$ 1,002.00	s	- 107.38	-3.1070			S	1,120.55	\$	JU.40 -	3.3176
Total Bill on RPP (incl Prov. Re	bate)			\$ 934.66		\$	1,169.45	\$	234.80	25.12%				\$ 1,062.06	-\$	107.39	-9.18%			\$	1,120.55	\$	58.48	5.51%
Loss Factor (%)		3.3500%			3.3800%	1						3.3800%							3.3800%					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the .Charge \$ columns provide breakdowns or the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

Consumption 51,000 kWh May 1 - October 31 KW

		_	Curr	ent Board-A	nnroyad	n 1		2024 Propo	end			Impact 20	24 vs 2023			2025 Propos	end	- 1	Impact 202	E ve 2024
			Rate	Volume	Charge	-i -i	Rate	Volume	Joeu	Charge	l	illipact 20	24 13 2023		Rate	Volume	Charge	- 1	impact 202	.5 VS 2024
	Charge Unit		(\$)		(\$)		(\$)			(\$)		\$ Change	% Change		(\$)		(\$)		\$ Change	% Change
Monthly Service Charge	Monthly	\$	200.0000	1	\$ 200.00	ı	\$ 230.5500) 1	1 \$	230.55	\$	6.95	3.11%	\$	235.7800	1	\$ 235.78	3	\$ 5.23	2.27%
Smart Meter Rate Adder				1	\$ -			1	1 \$	-	\$					1	\$ -		\$ -	
Rate Rider Calculation for Gain an		\$	-	50	\$ -		\$ -	50		-	\$			\$	-	50	\$ -		\$ -	
Rate Rider Calculation for PILs	per kW	\$	-	50	\$ -		\$ -	50		-	\$			\$	-	50	\$ -		\$ -	
Rate Rider Calculation for Generic	per kW	\$	-	50	\$ -		\$ -	50		-	\$			\$	-	50	s -		\$ -	
		s		1	\$ -		\$ 6.5058	. 1	1 \$		\$					1 50	\$ -		\$ -	2.92%
Distribution Volumetric Rate Smart Meter Disposition Rider	per kW	3	4.8760	50 51000	\$ 243.80	'	\$ 6.5058	50 51000		325.29	S		3.91%	\$	6.6955	51000	\$ 334.78	,	\$ 9.49	2.92%
LRAM Rate Rider	per kW	s		51000	\$ - \$ -			51000		-	5					51000	\$ - \$ -		\$ - \$ -	
LINAW Rate Rider	per Kvv	٦	-	51000	\$ -			51000		-	S					51000	s -		\$ -	
				51000				51000		-	S					51000			\$ -	
				51000				51000			Š					51000			š -	
				51000				51000		_	Š					51000			š -	
Deferral/Variance Account	per kW	s	0.1717	0.000	•			0.000	1		*					01000	•		•	
Disposition Rate Rider Class 2	p			50	\$ 8.59		s -	50	s	-	s			s		50	s -		s -	
									1		*						1			
				51000	\$ -			51000	\$	-	\$					51000	\$ -		\$ -	
				51000	\$ -			51000	\$	-	\$					51000	\$ -		\$ -	
Sub-Total A (excluding pass the	rough)				\$ 452.39				\$	555.84	\$	19.19	3.58%				\$ 570.56	3	\$ 14.72	2.65%
Deferral/Variance Account	per kW	-\$	0.0403																	
Disposition Rate Rider Class 1				50	-\$ 2.02	: I	\$ -	50	\$	-	\$	-		\$	-	50	\$ -		\$ -	
Deferral/Variance Account	per kWh	-\$	0.0015				_										_		_	
Disposition Rate Rider - Global Adjustment				51000	-\$ 76.50	'	\$ -	51000	5	-	\$	-		\$	-	51000	\$ -		\$ -	
Deferral / Variance Accounts	per kW	-s	0.0247																	
Balances (excluding Global Adj.) -	per kvv	-3	0.0247	50	-\$ 1.24		s -	50	s		s			s		50	s -		s -	
NON-WMP				50			•	30		-		, -		4	-	30	-			
Low Voltage Service Charge	per kW	s	0.02452	50	\$ 1.23		\$ 0.02518	50	s	1.26	s	0.01	0.96%	s	0.02552	50	\$ 1.28		\$ 0.02	1.35%
Line Losses on Cost of Power	p=			1,709	\$ -			1,724		-	Š					1,724	\$ -		s -	
Smart Meter Entity Charge	Monthly	\$	-		\$ -		s -	1	1 \$	-	Š			\$	-	1	š -		\$ -	
Sub-Total B - Distribution					\$ 373.86	i i			s	557.10	s	19.20	3.57%				\$ 571.83		\$ 14.73	2.64%
(includes Sub-Total A)																		_		
RTSR - Network	per kW	\$	2.9017	50	\$ 145.09	1	\$ 2.9017	50	\$	145.09	\$	-	0.00%	\$	2.9017	50	\$ 145.09	9	\$ -	0.00%
RTSR - Line and Transformation	per kW	s	2.0474	50	\$ 102.37	.	\$ 2.0474	50	\$	102.37	s		0.00%	s	2.0474	50	\$ 102.37	,	s -	0.00%
Connection	F	Ť				4			-		Ľ							_	•	
Sub-Total C - Delivery (including Sub-Total B)					\$ 621.32	:			\$	804.55	\$	19.20	2.45%				\$ 819.29)	\$ 14.73	1.83%
Wholesale Market Service	per kWh	s	0.0034			- +	\$ 0.0034		-					S	0.0034			-		
Charge (WMSC)	poi kvvii	9	0.0054	52709	\$ 179.21		9 0.005	52724	\$	179.26	\$		0.00%	4	0.0054	52724	\$ 179.26	6	\$ -	0.00%
Rural and Remote Rate	per kWh	s	0.0005				\$ 0.0008	5						s	0.0005					
Protection (RRRP)	p=:			52709	\$ 26.35	1		52724	\$	26.36	\$	-	0.00%			52724	\$ 26.36	6	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$	0.2500	1	\$ 0.25		\$ 0.6800) 1	1 \$	0.68	\$	0.02	3.03%	\$	0.7000	1	\$ 0.70)	\$ 0.02	2.94%
Average IESO Wholesale Market I	Price	\$	0.1101	52709	\$ 5,803.21		\$ 0.110	52724	1 \$	5,804.89	\$		0.00%	\$	0.1101	52724	\$ 5,804.89	9	\$ -	0.00%
									1		П		1			1	1			1
									1		П		1			1	1			1
						J L			-		щ			<u> </u>				ш		
Total Bill on TOU (before Taxes	;)				\$ 6,630,34	7			s	6.815.75	s	19.22	0.28%				\$ 6.830.50)	\$ 14,75	0.22%
HST	,		13%		\$ 861.94		139	16	\$	886.05	s		0.28%		13%		\$ 887.96		\$ 1.92	0.22%
Total Bill (including HST)					\$ 7,492.28				\$	7,701.79	\$		0.28%				\$ 7,718.46		\$ 16.67	0.22%
Provincial Rebate					\$ -				\$	-	s	-					\$ -		\$ -	
Total Bill on TOU (incl Prov. Re	bate)				\$ 7,492.28				\$	7,701.79	\$	21.72	0.28%				\$ 7,718.46	3	\$ 16.67	0.22%
						. 1						14.61								
Total Bill on RPP (before Taxes)	1	13%		\$ 827.13 \$ 107.53		139	,	\$	1,010.86 131.41	\$		1.94% 1.94%		13%	1	\$ 1,025.61 \$ 133.33		\$ 14.75 \$ 1.92	1.46% 1.46%
HST		1	13%		\$ 107.53 \$ 934.66		13	0	\$	1.142.27	S		1.94%		13%	l	\$ 133.33 \$ 1.158.94		\$ 1.92 \$ 16.67	1.46%
Total Bill (including HST) Provincial Rebate		1			\$ 934.00	'		1	S	1,142.27	9		1.94%					-	\$ 10.07	1.46%
	4 - 1					,			\$	4.440.57	5		4.6.00				\$ -			4 4-01
Total Bill on RPP (incl Prov. Rel	pate)				\$ 934.66				\$	1,142.27	\$	21.72	1.94%				\$ 1,158.94		\$ 16.67	1.46%
						- '								_						
Loss Factor (%)			3.3500%				3.3800	%							3.3800%]				

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

riote that the Charge \$ columns provide preakdowns of the amounts that each bill component contrib consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In additior to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP ra

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020 Page 36 of 56

Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020

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Appendix 2-W Bill Impacts

Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

	Consumption		60 kWh •	May 1 - October 31	0	November 1 -	- April 30 (Se	lect this radio button for	r application	ns filed after Oct	31)														
			urrent Board-	-Approved		2021	Proposed			Impact 2021	vs 2020			2022 Propose	d		Impact 2022	vs 2021		20	23 Proposed	i	lr.	npact 202	3 vs 2022
	Charge Unit	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volu	ıme	Charge (\$)		Change	% Change		Rate (\$)	Volume	Charge (\$)		Change	% Change	Rat (\$)		/olume	Charge (\$)		hange	% Change
Monthly Service Charge	Monthly	\$ 200.000	0 1	\$ 200.00	\$ 200.0	0000	1 S	200.00	\$		0.00%	\$	212.5100	1 \$	212.51	s	12.51	6.26%		6000	1 S	223.60	\$	11.09	5.22%
Smart Meter Rate Adder	,		1	\$ -			1 \$	-	\$	-				1 \$	-	\$	-				1 \$	-	\$	-	
Rate Rider Calculation for Gain ar		s -	250 250		\$	-	250 \$	-	\$	-		\$	-	250 \$	-	\$	- :		\$	-	250 \$ 250 \$	-	\$	-	
Rate Rider Calculation for PILs Rate Rider Calculation for Generic	per kW	s -	250		\$		250 \$ 250 \$	-	\$	-		\$	-	250 \$ 250 \$		\$	-		\$		250 \$		\$		
	por KVV	*	1	\$ -	•		1 \$	-	\$	-		_		1 \$	-	\$	-		•		1 \$	-	\$	-	
Distribution Volumetric Rate	per kW	\$ 4.876			\$ 5.5		250 \$	1,376.98	\$	157.98	12.96%	\$	5.9028	250 \$	1,475.70	\$	98.72	7.17%	\$ 6	2610	250 \$	1,565.25	\$	89.55	6.07%
Smart Meter Disposition Rider LRAM Rate Rider	per kW		127750 250				7750 \$ 250 -\$	4.40	-\$	4.40		-\$	0.0176	127750 \$ 250 -\$	4.40	\$	-	0.00%			127750 \$ 250 \$	-	\$ \$	4.40	-100.00%
LIONW INDICATION	por KVV	•	127750		-5 0.0		7750 \$	4.40	\$	4.40		-9	0.0170	127750 \$		s	-	0.0070	Ψ	-	127750 \$	-	s	-	-100.0070
			127750	\$ -		12	7750 \$	-	\$	-				127750 \$	-	\$	-				127750 \$	-	\$	-	
			127750				7750 \$		\$	=				127750 \$	-	\$	-				127750 \$	-	\$	-	
Deferral/Variance Account	per kW	\$ 0.171	127750	-		12	7750 \$	-	3	-				127750 \$	-	3	-				127750 \$	-	2	-	
Disposition Rate Rider Class 2	por KVV	0.171	250	\$ 42.93	-\$ 0.2	2549	250 -\$	63.73	-\$	106.65	-248.46%	-\$	0.2548	250 -\$	63.70	\$	0.02	-0.04%	\$	-	250 \$	-	\$	63.70	-100.00%
				_												١.									
			127750 127750				7750 \$ 7750 \$	-	\$	-				127750 \$ 127750 \$	-	\$	-				127750 \$ 127750 \$	-	\$	-	
Sub-Total A (excluding pass th	rough)		127730	\$ 1,461.93		12	\$	1,508.85	\$	46.93	3.21%			\$	1,620.11	\$	111.26	7.37%			\$	1,788.85	\$	168.74	10.42%
Deferral/Variance Account	per kW	-\$ 0.040			-\$ 0.1	1821						-\$	0.1820						\$	-					
Disposition Rate Rider Class 1			250	-\$ 10.08			250 -\$	45.53	-\$	35.45	351.86%			250 -\$	45.50	\$	0.03	-0.05%			250 \$	-	\$	45.50	-100.00%
Deferral/Variance Account	per kWh	-\$ 0.001			\$ 0.0	0026																			
Disposition Rate Rider - Global			127750	-\$ 191.63		12	7750 \$	332.15	\$	523.78	-273.33%	\$	-	127750 \$	-	-\$	332.15	-100.00%	\$	-	127750 \$	-	\$	-	
Adjustment Deferral / Variance Accounts	per kW	-\$ 0.024	17		-s n -	1053																			
Balances (excluding Global Adj.) -	por KVV	0.02-	250	-\$ 6.18	• 0.		250 -\$	26.33	-\$	20.15	326.32%	\$	-	250 \$	-	\$	26.33	-100.00%	\$	-	250 \$	-	\$	-	
NON-WMP																									
Low Voltage Service Charge Line Losses on Cost of Power	per kW	\$ 0.0245	52 250 4,280		\$ 0.02		250 \$.318 \$	6.09	-\$	0.04	-0.73%	\$	0.02465	250 \$ 4.318 \$	6.16	\$	0.08	1.27%	\$ 0.0	2494	250 \$ 4.318 \$	6.24	\$	0.07	1.18%
Smart Meter Entity Charge	Monthly	s -	4,280	\$ - \$	s	- 4	1 \$		\$	-		s	-	4,318 \$		s	-		s	-	4,318 \$		\$	-	
Sub-Total B - Distribution				\$ 1,260,18			•	1,775.24	\$	515.06	40.87%			•	1.580.77	-5	194.46	-10.95%			•	1,795.09	•	214.31	13.56%
(includes Sub-Total A) RTSR - Network	per kW	\$ 2.901	7 250	. ,	6 20	9017	250 \$	725.43	s		0.00%	S	2.9017	250 \$	725.43		-	0.00%	\$ 2	9017	250 \$	725.43		-	0.00%
RTSR - Line and Transformation	-			1 1						-						-	-						3		
Connection	per kW	\$ 2.047	4 250	\$ 511.85	\$ 2.0	0474	250 \$	511.85	\$	-	0.00%	\$	2.0474	250 \$	511.85	\$	-	0.00%	\$ 2	.0474	250 \$	511.85	\$	-	0.00%
Sub-Total C - Delivery (including Sub-Total B)				\$ 2,497.46			\$	3,012.51	\$	515.06	20.62%			\$	2,818.05	-\$	194.46	-6.46%			\$	3,032.36	\$	214.31	7.60%
Wholesale Market Service	per kWh	\$ 0.003	132030	\$ 448.90	\$ 0.0	0034	2068 \$	449.03	s	0.13	0.03%	\$	0.0034	132068 \$	449.03	_		0.00%	\$ 0	.0034	132068 \$	449.03	e	-	0.00%
Charge (WMSC)				\$ 448.90			2008 \$	449.03	3	0.13	0.03%			132008 \$	449.03	3	-	0.00%			132008 \$	449.03	2	-	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.000	132030	\$ 66.01	\$ 0.0	0005	2068 \$	66.03	\$	0.02	0.03%	\$	0.0005	132068 \$	66.03	\$	-	0.00%	\$ 0	.0005	132068 \$	66.03	\$	-	0.00%
Standard Supply Service Charge	Monthly	\$ 0.250	0 1	\$ 0.25	s 0.6	6200	1 S	0.62	s	0.37	148.00%	s	0.6400	1 \$	0.64	s	0.02	3.23%	\$ 0	.6600	1 \$	0.66	s	0.02	3.13%
Average IESO Wholesale Market		\$ 0.110					2068 \$	14,540.68	\$	4.22	0.03%	\$	0.1101	132068 \$	14,540.68	\$	-	0.00%	\$ 0	1101	132068 \$	14,540.68	\$	-	0.00%
Total Bill on TOU (before Taxes	5)			\$ 17,549,08			s	18.068.88	s	519.79	2.96%	_		s	17,874,43	-S	194.44	-1.08%			s	18,088,77	T S	214.33	1.20%
HST	•	13	3%	\$ 2,281.38		13%	\$	2,348.95	\$	67.57	2.96%		13%	\$	2,323.68	-\$	25.28	-1.08%		13%	\$	2,351.54	\$	27.86	1.20%
Total Bill (including HST)				\$ 19,830.46			\$	20,417.83	\$	587.37	2.96%			\$	20,198.11	-\$	219.72	-1.08%			S	20,440.31	\$	242.20	1.20%
Provincial Rebate	h-4-1			\$ 19.830.46			\$	20.417.83	\$	587.37	0.000/			\$	-	\$	219.72	4 000/			\$	20,440,31	5	242.20	4.000/
Total Bill on TOU (incl Prov. Re							\$		\$		2.96%			\$	20,198.11	->		-1.08%			\$		3		1.20%
Total Bill on RPP (before Taxes)	13	20/	\$ 3,012.62 \$ 391.64		13%	\$	3,528.20 458.67	\$	515.57 67.02	17.11% 17.11%	- 1 -	13%	\$	3,333.75 433.39	-\$	194.44 25.28	- 5.51% -5.51%		13%	\$	3,548.09 461.25	\$	214.33 27.86	6.43% 6.43%
Total Bill (including HST)		13	576	\$ 3,404.26		13%	S	3.986.86	\$	582.60	17.11%		13%	\$	3,767.14	-S	219.72	-5.51%		13%	\$	4,009.34	\$	242.20	6.43%
Provincial Rebate				\$ -			S	-	\$	-				\$	2,707:14	\$		5.0170			S	-,000.04	\$	-	3.4070
Total Bill on RPP (incl Prov. Re	bate)			\$ 3,404.26			\$	3,986.86	\$	582.60	17.11%			\$	3,767.14	-\$	219.72	-5.51%			\$	4,009.34	\$	242.20	6.43%
Loss Factor (%)		3.3500	0%		3.38	800%							3.3800%						3.3	800%					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the .Charge \$ columns provide breakdowns or the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

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Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

Consumption 127,750 kWh May 1 - October 31 KW

		Current Board-Approved					2024 Proposed						Н	Impact 20	24 vs 2023	- r			2025 Prop	nend			mpact 202	5 ve 2024
	ŀ	F	Rate	Volume	прріо	Charge	h		Rate	Volume	Joeu	Charge	H	IIIIpact 20	24 43 2023	1 F	Rate		Volume	Charg	е		inpact zoz	J V3 ZUZ4
Charge L	Unit		(\$)			(\$)	L		(\$)			(\$)		\$ Change	% Change		(\$)			(\$)			Change	% Change
Monthly Service Charge Monthly		\$ 20	00.000	1	\$	200.00		\$ 2	230.5500	1	\$	230.55	\$	6.95	3.119	6 :	235.7	800	1		235.78	\$	5.23	2.27%
Smart Meter Rate Adder					\$	-				1	\$	-	\$							\$	-	\$	-	
Rate Rider Calculation for Gain andper kW		\$	-	250		-		\$	-	250	\$	-	\$					-	250	\$	-	\$	-	
Rate Rider Calculation for PILs per kW		\$	-	250		-		\$	-	250	\$	-	\$				5	-	250	\$	-	\$	-	
Rate Rider Calculation for Generic per kW		\$	-	250		-		\$	-	250			9				5	-	250	s s	-	\$	-	
Distribution Volumetric Rate per kW		s	4.8760	250	\$	1,219.00		s	6.5058	250	\$	1,626.45	9		3.919	, .	6.6	955	250		373.88	s	47.43	2.92%
Smart Meter Disposition Rider		3	4.0700	127750		1,219.00		٠	0.3036	127750	S	1,020.45	9		3.917	۰ .	0.0	955	127750	\$ 1, \$	3/ 3.00	s	47.43	2.9270
LRAM Rate Rider per kW		s		250	\$			s		250	Š	-	9				6		250	Š	- 1	s	-	
El Calvi I Cate I Cotei			-	127750				•	-	127750	Š		S				,	-	127750	Š	0 1	s		
				127750		_				127750		_	S						127750	Š	_	Š	_	
				127750		_				127750		-	S						127750	Š	-	Š	_	
				127750		_				127750		-	9							s	-	\$	-	
Deferral/Variance Account per kW		s	0.1717										- 1 -									1		
Disposition Rate Rider Class 2				250	\$	42.93		\$	-	250	\$		9	-			5	-	250	\$	-	\$	-	
				127750		-				127750		-	9	-					127750	\$	-	\$	-	
				127750		-	L			127750		-	\$						127750	\$	-	\$	-	
Sub-Total A (excluding pass through)					\$	1,461.93	L				\$	1,857.00	\$	68.15	3.819					\$ 1,	909.66	\$	52.66	2.84%
Deferral/Variance Account per kW		-\$	0.0403					\$	-		١.		١.				5	-				١.		
Disposition Rate Rider Class 1				250	-\$	10.08				250	\$	-	\$	-					250	\$	-	\$	-	
Deferral/Variance Account per kWh		-s	0.0015																					
Disposition Rate Rider - Global		-5	0.0015	127750		191.63		s	_	127750	s	_	9						127750			s		
Adjustment				127730	-9	191.03		٠	-	12//30	3	-	,			1 1	P	-	127730	9	-	9	-	
Deferral / Variance Accounts per kW		-S	0.0247																					
Balances (excluding Global Adj.) -		•	0.02-47	250	-\$	6.18		s	_	250	s	_	9					_	250	s	_	s	_	
NON-WMP				200		0.10		•		200	•		Ι,				•		200	•		•		
Low Voltage Service Charge per kW		s (0.02452	250	\$	6.13		s	0.02518	250	s	6.30	9	0.06	0.969	6 :	0.02	552	250	s	6.38	s	0.09	1.35%
Line Losses on Cost of Power				4,280	\$	-		-		4,318	Š	-	3							Š	-	Š	-	
Smart Meter Entity Charge Monthly		\$	-	1	\$	-		\$	-	1	\$	-	9	-			\$	-	1	\$	-	\$	-	
Sub-Total B - Distribution					s	1,260.18					s	1,863.30	9	68.21	3,80%	,				S 1.	916.04	s	52.74	2.83%
(includes Sub-Total A)							L					-											32.74	
RTSR - Network per kW		\$	2.9017	250	\$	725.43		\$	2.9017	250	\$	725.43	\$	-	0.009	6 :	2.9	017	250	\$	725.43	\$	-	0.00%
RTSR - Line and Transformation per kW		s	2.0474	250	\$	511.85		s	2.0474	250	\$	511.85	9		0.009	6 :	20	474	250	\$	511.85	s	_	0.00%
Connection		_			_		-	_			Ľ		- 1									Ŀ		
Sub-Total C - Delivery					\$	2,497.46					\$	3,100.57	\$	68.21	2.25%	%				\$ 3,	153.31	\$	52.74	1.70%
(including Sub-Total B) Wholesale Market Service per kWh		S	0.0034				-	s	0.0034				- -				0.0	034				-		
Charge (WMSC)			0.0034	132030	\$	448.90		•	0.0034	132068	\$	449.03	9	-	0.009	6	0.0	034	132068	\$	149.03	\$	-	0.00%
Rural and Remote Rate per kWh		\$	0.0005					s	0.0005								0.0	005						
Protection (RRRP)				132030	\$	66.01		-		132068	\$	66.03	\$	-	0.009	6			132068	\$	66.03	\$	-	0.00%
Standard Supply Service Charge Monthly		s	0.2500	1	\$	0.25		\$	0.6800	1	s	0.68	9	0.02	3.039	6 :	0.7	000	1	s	0.70	s	0.02	2.94%
Average IESO Wholesale Market Price		\$	0.1101	132030	\$	14,536.46		\$	0.1101	132068	\$	14,540.68	9		0.009			101	132068	\$ 14,	540.68	\$		0.00%
											I													
							. L				_					. ∟								
Total Bill on TOU (before Taxes)					s	17,549,08	, ř				s	18,157,00	5	68.23	0.389	6				S 18.	209.76	s	52.76	0.29%
HST			13%		\$	2,281.38			13%		Š	2,360.41	9		0.389			13%			367.27	Š	6.86	0.29%
Total Bill (including HST)					\$	19,830.46					\$	20,517.41	9		0.389						577.02	\$	59.62	0.29%
Provincial Rebate					s	_					S	-	9							S	_	s		
Total Bill on TOU (incl Prov. Rebate)					s	19,830.46					s	20,517.41	9	77.10	0.389	%				\$ 20.	577.02	s	59.62	0.29%
							į																	
Total Bill on RPP (before Taxes)					\$	3,012.62					\$	3,616.32	\$		1.92%						669.08	\$	52.76	1.46%
HST			13%		\$	391.64			13%		\$	470.12	8		1.929			13%			476.98	\$	6.86	1.46%
Total Bill (including HST)					\$	3,404.26					\$	4,086.44	\$	77.10	1.929	6				\$ 4,	146.05	\$	59.62	1.46%
Provincial Rebate					\$						\$	-	8	-						\$	-	\$	-	
Total Bill on RPP (incl Prov. Rebate)					\$	3,404.26					\$	4,086.44	\$	77.10	1.92%	%				\$ 4,	146.05	\$	59.62	1.46%
							_																	
Loss Factor (%)	Γ		3.3500%				П		3.3800%							П	3.38	00%						
* *							-									-								

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

note that the Charge \$ columns provide breakdowns of the amounts that each bill component contribut consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rat

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Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

November 1 - April 30 (Select this radio button for applications filed after Oct 31) Impact 2021 vs 2020 2022 Proposed Impact 2022 vs 2021 % Change % Change 6.269 Monthly Service Charge Smart Meter Rate Adder
Rate Rider Calculation for Gain anper kW
Rate Rider Calculation for PILs per kW
Rate Rider Calculation for Generic per kW 500 \$ 500 \$ 500 \$ 500 \$ 500 \$ 500 \$ 500 \$ Distribution Volumetric Rate Smart Meter Disposition Rider LRAM Rate Rider 500 \$ 255500 \$ 500 -\$ 255500 \$ 255500 \$ 500 \$
255500 \$
500 -\$
255500 \$
255500 \$
255500 \$ 4.8760 500 S 2,438.00 5.5079 2,753.95 315.95 12.96% 5.9028 2,951.40 197 45 7.179 0.0176 0.0176 0.00% 255500 \$ 255500 \$ 255500 \$ 255500 \$ 255500 \$ Deferral/Variance Account per kW 0.171 Disposition Rate Rider Class 2 500 \$ 85.85 0.2549 500 -\$ 127.45 213.30 -248.46% 0.2548 500 -S 127.40 0.05 -0.04% 255500 \$ 255500 \$ Sub-Total A (excluding pass through) 2,723.85 2,817.70 3,027.71 \$ 210.01 7.45% 0.182 0.1820 20 15 70.90 351.86% 91.00 -0.059 Disposition Rate Rider Class 1 500 -S 500 -S 91.05 500 -\$ 0.05 Deferral/Variance Account
Disposition Rate Rider - Global
Adjustment
Deferral / Variance Accounts 0.001 0.0026 255500 -\$ 383.25 664.30 \$ 1,047.55 -273.33% 255500 \$ -100.009 0.1053 12.35 326.32% -100.009 Balances (excluding Global Adj.) - NON-WMP Low Voltage Service Charge Line Losses on Cost of Power 500 -9 500 -\$ 52.65 40.30 500 \$ 52.65 500 S 12.26 S 0.02434 500 \$ 12.1 0.09 -0.73% \$ 0.02465 500 \$ 12.33 0.15 1.279 per kW 0.02452 8.559 8.636 S 8.636 Smart Meter Entity Charge Sub-Total B - Distribution (includes Sub-Total A) RTSR - Network s 2.320.36 3.350.47 \$ 1,030,11 44.39% s 2.949.04 401.44 -11.98% RTSR - Network RTSR - Line and 2.0474 500 \$ \$ 2.0474 2.0474 1,023.70 per kW 1,023.70 1,023.70 0.00% 0.009 Transformation Connect Sub-Total C - Delivery 4,794,91 5.825.02 \$ 1,030,11 21,489 5,423,59 401.44 -6.89% (including Sub-Total B)
Wholesale Market Service ner kWh 0.003 0.0034 Wholesale Market Servic Charge (WMSC) Rural and Remote Rate Protection (RRRP) 264059 S 897.80 264136 \$ 898.06 0.26 0.03% 264136 \$ 898.06 0.00% 0.0005 132.03 132.07 0.04 0.03% 132.07 0.009 Standard Supply Service Charge Monthly Average IESO Wholesale Market Price 0.62 29,081.36 0.64 29,081.36 3.23% 0.00% 0.2500 0.1101 0.25 29,072.92 0.6200 0.1101 0.37 8.44 148.00% 0.6400 0.1101 0.02 1 264059 \$ 1 \$ 264136 \$ 1 \$ 264136 \$ 0.03% Total Bill on TOU (before Taxes) 4,536.73 39,434.64 13% 4,671.83 40.608.96 135.10 2.98% 4,619.64 40.155.36 52.18 -1.12% Total Bill (including HST) 1.174.32 2 98% 453.60 -1 129 Total Bill (including HST)
Provincial Rebate

Total Bill on TOU (incl Prov. Rebate)

Total Bill on RPP (before Taxes) 39,434.64 40,155.36 40,608.96 5,824.99 757.25 6,582.24 1,030.78 134.00 1,164.78 6,454.36 839.07 7,293.42 **401.42** 52.18 453.60 -5.86% -5.86% -5.86% Total Bill (including HST) Total Bill on RPP (incl Prov. Rebate) 1,164.78 Loss Factor (%) 3.3500% 3.3800% 3.3800%

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000

GS>50kW (kW) - 60, 100, 500, 1000

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has undated column Fto reflect the most recent Board Approved TOU and Tier RPP rates

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Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

2023 Propose Impact 2023 vs 2022 \$ Change % Change 5.22% Monthly Service Charge Smart Meter Rate Adder
Rate Rider Calculation for Gain anper kW
Rate Rider Calculation for PILs per kW
Rate Rider Calculation for Generic per kW 500 \$ 500 \$ 500 \$ 500 \$ 500 \$ Distribution Volumetric Rate Smart Meter Disposition Rider LRAM Rate Rider 500 \$ 255500 \$ 500 \$ 255500 \$ 255500 \$ 4.8760 2,438.00 \$ 6.2610 3,130.50 179.10 6.079 -100.009 255500 \$ 255500 9 255500 \$ 255500 \$ 255500 \$ Deferral/Variance Account per kW 0.171 Disposition Rate Rider Class 2 500 \$ 85.85 \$ 500 \$ 127.40 -100.00% 255500 S 255500 S Sub-Total A (excluding pass through) ,723.85 \$ 326.39 20 15 \$ 91.00 -100 009 Disposition Rate Rider Class 1 500 -S Deferral/Variance Account
Disposition Rate Rider - Global
Adjustment
Deferral / Variance Accounts 0.001 255500 -\$ 383.25 \$ 255500 \$ 500 -\$ 12.35 \$ 500 Balances (excluding Global Adj.) - NON-WMP Low Voltage Service Charge Line Losses on Cost of Power per kW 500 S 12.26 \$ 0.02494 12.47 0.15 1.18% 0.02452 8.559 8.636 Line Losses on Cost of Pows Smart Meter Entity Charge Sub-Total B - Distribution (Includes Sub-Total A) RTSR - Network RTSR - Line and \$ 2.320.36 3,366,57 417.54 14.169 per kW \$ 2.0474 500 \$ 1,023.70 \$ 2.0474 500 \$ 1,023.70 0.00% Transformation Connection
Sub-Total C - Delivery
(including Sub-Total B)
Wholesale Market Service 7.70% 4,794,91 5.841.12 417.54 ner kWh 0.003/ Wholesale Market Service
Charge (WMSC)
Rural and Remote Rate
Protection (RRRP)
Standard Supply Service Charge
Monthly
Average IESO Wholesale Market Price 264059 \$ 897.80 264136 \$ 898.06 0.00% 132.03 132.07 0.00% 0.25 29,072.92 \$ 3.13% 0.2500 0.1101 0.6600 0.1101 0.66 29,081.36 0.02 1 \$ 264059 \$ 1 \$ 264136 \$ Total Bill on TOU (before Taxes) 4,536.73 39,434.64 4,673.93 40.627.20 54.28 1.18% Total Bill (including HST) 471.84 Total Bill (including HST)
Provincial Rebate

Total Bill on TOU (incl Prov. Rebate)

Total Bill on RPP (before Taxes) 39,434.64 40,627.20 6.47 6.47 6.47 5,824.99 757.25 6,582.24 417.56 54.28 471.84 Total Bill (including HST) Total Bill on RPP (incl Prov. Rebate)

3.3800%

		Rate	Volume		Charge						Rate	Volume		Charge				
e		(\$)			(\$)		Change	% Change			(\$)			(\$)			Change	% Change
2%	\$	230.5500	1	\$	230.55	\$	6.95	3.11%		\$	235.7800	1	\$	235.78		\$	5.23	2.27%
			1	\$	-	\$	-					1	\$	-		\$	-	
	\$	-	500		-	\$	-			\$	-	500	\$	-		\$	-	
	\$	-	500 500	\$	-	\$	-			\$	-	500	\$	-		\$	-	
	\$	-	500		-		-			3		500	\$	-		\$	-	
7%	\$	6.5058	500	\$	3,252.90	\$	122.40	3.91%		\$	6.6955	500	\$	3,347.75		\$	94.85	2.92%
770	2	0.3036	255500			\$		3.9170		3	0.0900	255500				\$		2.9270
0%	\$		255500 500	\$	-	\$	-			s		255500 500	\$	-		\$	-	
376	3		255500		-	\$				3	-	255500	\$			\$		
			255500	\$	-	\$	-					255500	\$	-		\$	-	
			255500		-	\$	- :					255500	\$	-		\$	-	
			255500			\$						255500				s		
			200000	•		1						200000				•		
0%	\$	-	500	\$	-	\$	-			\$		500	\$			\$	-	
						1.												
			255500	\$	-	\$	-					255500	\$	-		\$		
			255500		-	\$	-					255500	\$	-		\$	-	
8%				\$	3,483.45	\$	129.35	3.86%					\$	3,583.53		\$	100.08	2.87%
	\$	-								\$	-							
0%			500	\$	-	\$	-					500	\$	-		\$	-	
						١.										_		
	\$	-	255500	\$	-	\$	-			\$	-	255500	\$	-		\$	-	
	\$		500	s		\$				\$		500	s			\$		
	2	-	500	٥	-	9	-			3		500	٥	-		9	-	
8%	\$	0.02518	500	\$	12.59	\$	0.12	0.96%		s	0.02552	500	s	12.76		\$	0.17	1.35%
3 70	4	0.02510	8,636	\$	12.55	\$	0.12	0.5070		9	0.02332	8,636	\$	12.70		\$	0.17	1.5576
	\$		0,030	\$		\$				\$		0,030	\$			\$	- :	
	_									_								
6%				\$	3,496.04	\$	129.47	3.85%					\$	3,596.29		\$	100.25	2.87%
0%	\$	2.9017	500	\$	1,450.85	\$	-	0.00%		\$	2.9017	500	\$	1,450.85		\$	-	0.00%
0%	\$	2.0474	500	s	1,023.70	\$		0.00%		\$	2.0474	500	\$	1,023.70		\$	_	0.00%
3 70	9	2.0474	300	3	1,023.70	9		0.0076		3	2.0474	300	9	1,023.70		•	-	0.0070
0%				\$	5,970.59	\$	129.47	2.22%					\$	6,070.84		\$	100.25	1.68%
		0.0004		-	-,	ř					0.0004		•	-,				
3%	\$	0.0034	264136	\$	898.06	\$	-	0.00%		\$	0.0034	264136	\$	898.06		\$	-	0.00%
	\$	0.0005								s	0.0005							
0%	2	0.0005	264136	\$	132.07	\$	-	0.00%		3	0.0005	264136	\$	132.07		\$	-	0.00%
3%	\$	0.6800	- 1	s	0.68	\$	0.02	3.03%		\$	0.7000	- 1	s	0.70		\$	0.02	2.94%
376 3%	\$	0.0000	264136		29,081.36	\$	0.02	0.00%		S	0.7100	264136		29,081.36		s	0.02	0.00%
, , ,	9	0.1101	204130	3	25,001.50	9		0.0070		3	0.1101	204130	9	25,001.30		•	-	0.0070
)							_		
8%				\$	36,082.76	\$	129.49	0.36%					\$	36,183.03		\$	100.27	0.28%
8%		13%		\$	4,690.76	\$	16.83	0.36%			13%		\$	4,703.79		\$	13.04	0.28%
8%				\$	40,773.52	\$	146.32	0.36%					\$	40,886.83		\$	113.31	0.28%
				S	-	\$	-						\$	-		\$	-	
8% 7%				\$	40,773.52	\$	146.32	0.36%	l				\$	40,886.83	L	\$	113.31	0.28%
797				\$	7,001,40	\$	129.49	1.88%	1				\$	7.101.67		\$	100.27	1,43%
7% 7%	1	13%		\$	910.18	\$	16.83	1.88%			13%		\$	923.22	ı	\$	13.04	1.43%
7%	1	1370		\$	7,911.58	\$	146.32	1.88%			1376		\$	8,024.89		\$	113.31	1.43%
70	1			\$	7,811.50	5	140.32	1.00%					\$	0,024.09		S	113.31	1.43%
								4 000/										4 4007
7%				\$	7,911.58	\$	146.32	1.88%	ŀ				\$	8,024.89		\$	113.31	1.43%
_	_																	
		3.3800%	1								3.3800%							
	_		•									•						

Impact 2024 vs 2023

2025 Proposed
Rate Volume Charge

Impact 2025 vs 2024

2024 Proposed

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component contri consumption level at existing and proposed rates.

3.3500%

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000

GS>50kW (kW) - 60, 100, 500, 1000

Loss Factor (%)

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has undated column Fto reflect the most recent Board Approved TOU and Tier RPP

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¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

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Appendix 2-W Bill Impacts

Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

Consumption 255,500 kWh May 1 - October 31

November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Consumption	1,000 KW				November 1 - April 30 (Select this radio button for applications filed after Oct 31)																			
	Current Board-Approx Rate Volume Charge Unit (\$)		proved			2021 Propos	ed		Impact 2021	vs 2020			2022 Proposed	i		Impact 2022	2 vs 2021			2023 Propos	sed		Impact 202	3 vs 2022	
	Ob 11-14		Volume	Charge		Rate	Volume	Charge		Change	n/ Oh		Rate	Volume	Charge		01	e/ Oh		Rate	Volume	Charge		01	n/ Ob
Monthly Service Charge	Monthly	\$ 200.0000	1 \$	200.00	\$	(\$) 200.0000	1 9	(\$) \$ 200.00	S	Change	% Change 0.00%	\$	(\$) 212.5100	1 \$	(\$) 212.51	\$	Change 12.51	% Change 6.26%	\$	(\$) 223.6000	1	(\$) \$ 223.60	٥ -	Change 11.09	% Change 5.22%
Smart Meter Rate Adder	monuny	200.0000	1 \$	-	•	200.0000	1 3		\$	-	0.0070	_	212.0100	1 \$	-	\$	-	0.2070	_	220.0000	1	\$ -	s	-	0.2270
Rate Rider Calculation for Gain ar		\$ -	1000 \$		\$	-	1000		\$	-		\$	-	1000 \$	-	\$	-		\$	-	1000		\$	-	1
Rate Rider Calculation for PILs Rate Rider Calculation for Generic	per kW	\$ -	1000 \$ 1000 \$		\$	-	1000		\$	-		\$	-	1000 \$ 1000 \$	-	\$			\$	-	1000 1000		\$	-	1
Rate Rider Calculation for Generic	с регкии	\$ -	1000 \$		>	-	1000		\$			3	-	1000 \$		\$	-		3	-	1000	s -	\$		1
Distribution Volumetric Rate	per kW	\$ 4.8760	1,000 \$	4,876.00	\$	5.5079	1,000	5,507.90	\$	631.90	12.96%	\$	5.9028	1,000 \$	5,902.80	\$	394.90	7.17%	\$	6.2610	1,000	\$ 6,261.00	s	358.20	6.07%
Smart Meter Disposition Rider			255500 \$				255500		\$	-				255500 \$	-	\$	-				255500		\$	-	1
LRAM Rate Rider	per kW	\$ -	1,000 \$ 255500 \$		-\$	0.0176	1,000 -5 255500 5		-\$	17.60		-\$	0.0176	1,000 -\$ 255500 \$	17.60	\$	-	0.00%	\$	-	1,000 255500	\$ -	\$	17.60	-100.00%
			255500 \$				255500		s	-				255500 \$		s	-				255500	s -	s		1
			255500 \$	-			255500		š	-				255500 \$	-	\$	-				255500		Š	-	1
			255500 \$	-			255500	-	\$	-				255500 \$	-	\$	-				255500	\$ -	\$	-	
Deferral/Variance Account Disposition Rate Rider Class 2	per kW	\$ 0.1717	1000 \$	171.70	e	0.2549	1000 -	\$ 254.90	-S	426.60	-248.46%	-\$	0.2548	1000 -\$	254.80	e	0.10	-0.04%	•	_	1000	s -	e	254.80	-100.00%
Disposition Nate Nider Class 2			1000 \$	171.70	-3	0.2540	1000	254.50	-9	420.00	-240.4070		0.2540	1000 - 4	254.00	,	0.10	-0.0470	Ψ	-	1000	Ψ -	~	234.00	- 100.0070
			255500 \$	-			255500	-	\$	-				255500 \$	-	\$	-				255500	\$ -	\$	-	
Sub-Total A (excluding pass th	rough)		255500 \$	5.247.70			255500	5.435.40	\$	187.70	3.58%			255500 \$	5.842.91	\$	407.51	7.50%			255500	\$ - \$ 6.484.60	\$	641.69	10.98%
Deferral/Variance Account	per kW	-\$ 0.0403	,	5,247.70	-S	0.1821		5,435.40	3	107.70	3.30%	-\$	0.1820	,	5,042.91	3	407.51	7.50%	\$	-		\$ 6,404.60	3	041.03	10.56 %
Disposition Rate Rider Class 1			1,000 -\$	40.30			1,000 -	182.10	-\$	141.80	351.86%			1,000 -\$	182.00	\$	0.10	-0.05%			1,000	\$ -	\$	182.00	-100.00%
Deferral/Variance Account	per kWh	-\$ 0.0015			s	0.0026																			
Disposition Rate Rider - Global	·		255500 -\$	383.25			255500	664.30	\$	1,047.55	-273.33%	\$	-	255500 \$	-	-\$	664.30	-100.00%	\$	-	255500	\$ -	\$	-	1
Adjustment	144/	0.0047			_	0.4050																			
Deferral / Variance Accounts Balances (excluding Global Adi.) -	per kW	-\$ 0.0247	1000 -\$	24.70	-5	0.1053	1000 -	105.30	-S	80.60	326.32%	\$	_	1000 \$	-	s	105.30	-100.00%	\$	_	1000	s -	<	_	1
NON-WMP			1000	24.70				100.00	ľ	00.00	020.0270	_		1000		•	100.00	100.0070	_		1000	*	ľ		1
Low Voltage Service Charge	per kW	\$ 0.02452	1,000 \$		\$	0.02434	1,000		-\$	0.18	-0.73%	\$	0.02465	1,000 \$	24.65	\$	0.31	1.27%	\$	0.02494	1,000		\$	0.29	1.18%
Line Losses on Cost of Power Smart Meter Entity Charge	Monthly	۹ .	8,559 \$ 1 \$		e	_	8,636		\$	-				8,636 \$	-	\$	- 1				8,636	\$ - \$ -	\$		1
Sub-Total B - Distribution	Mortally	-	s		3	-			-			Ψ	-			-			Ψ	-	- '	<u> </u>	-		44.400
(includes Sub-Total A)				4,823.97			,	5,836.64	\$	1,012.67	20.99%			\$	5,685.56	-\$	151.08	-2.59%				\$ 6,509.54	\$	823.98	14.49%
RTSR - Network RTSR - Line and Transformation	per kW	\$ 2.9017	1000 \$	2,901.70	\$	2.9017	1000	2,901.70	\$	-	0.00%	\$	2.9017	1000 \$	2,901.70	\$	-	0.00%	\$	2.9017	1000	\$ 2,901.70	\$	-	0.00%
Connection	per kW	\$ 2.0474	1000 \$	2,047.40	\$	2.0474	1000	2,047.40	\$	-	0.00%	\$	2.0474	1000 \$	2,047.40	\$	-	0.00%	\$	2.0474	1000	\$ 2,047.40	\$	-	0.00%
Sub-Total C - Delivery			s	9,773.07			,	10,785.74	9	1,012.67	10.36%			4	10,634.66	-S	151.08	-1.40%				\$ 11,458.64	•	823.98	7.75%
(including Sub-Total B) Wholesale Market Service	per kWh	\$ 0.0034				0.0034			•	-		•	0.0034	•		•	101.00		6	0.0034			Ť	020.00	
Charge (WMSC)	per kvvn	\$ 0.0034	264059 \$	897.80	>	0.0034	264136	898.06	\$	0.26	0.03%	2	0.0034	264136 \$	898.06	\$	-	0.00%	3	0.0034	264136	\$ 898.06	\$	-	0.00%
Rural and Remote Rate	per kWh	\$ 0.0005	264059 \$	132.03	\$	0.0005	264136	132.07	e	0.04	0.03%	\$	0.0005	264136 \$	132.07	e	_	0.00%	\$	0.0005	264136	\$ 132.07	e	_	0.00%
Protection (RRRP) Standard Supply Service Charge		\$ 0.2500	1 \$		_	0.6200	204130	0.62	\$	0.37	148.00%		0.6400	204130 \$	0.64		0.02	3.23%		0.6600	204130	\$ 0.66	,	0.02	3.13%
Average IESO Wholesale Market		\$ 0.2500	264059 \$		5	0.6200	264136		s	8.44	0.03%	\$	0.6400	264136 \$	29,081.36	s	0.02	0.00%	\$	0.0000	264136		s	0.02	0.00%
9				,	-				1			_			,				_			,	1		1
Table Bill on TOU that				20.070	_			40.007.5-		4 004 55	0.500				40.740.77		454.00	0.070/				A 44 F7C	=	004.55	0.055
Total Bill on TOU (before Taxes	5)	13%	\$	39,876.07 5.183.89		13%		40,897.85 5.316.72	s	1,021.78 132.83	2.56% 2.56%		13%	\$	40,746.79 5.297.08	-\$ -\$	151.06 19.64	-0.37% -0.37%		13%		\$ 41,570.79 \$ 5,404.20	s	824.00 107.12	2.02% 2.02%
Total Bill (including HST)		1070	\$	45,059.96		1070		46,214.57	\$	1,154.61	2.56%		1070	\$	46,043.88	-\$	170.70	-0.37%		1070		\$ 46,975.00	s	931.12	2.02%
Provincial Rebate			\$	-				-	\$	-				\$	-	\$	-					\$ -	\$	-	
Total Bill on TOU (incl Prov. Re	bate)		\$	45,059.96				46,214.57	\$	1,154.61	2.56%			\$	46,043.88	-\$	170.70	-0.37%				\$ 46,975.00	\$	931.12	2.02%
Total Bill on RPP (before Taxes	;)		\$	10,803.15				11,816.49	\$	1,013.34	9.38%			\$	11,665.43	-\$	151.06	-1.28%				\$ 12,489.43	\$	824.00	7.06%
HST		13%	\$	1,404.41		13%		1,536.14	\$	131.73	9.38%		13%	\$	1,516.51	-\$	19.64	-1.28%		13%		\$ 1,623.63	\$	107.12	7.06%
Total Bill (including HST) Provincial Rebate			\$	12,207.56				13,352.63	\$	1,145.07	9.38%			\$	13,181.94	-\$	170.70	-1.28%				\$ 14,113.06	\$	931.12	7.06%
Total Bill on RPP (incl Prov. Re	hato)		5	12.207.56				13.352.63	\$	1.145.07	9.38%			\$	13.181.94	-5	170.70	-1.28%				\$ 14,113.06	\$	931.12	7.06%
Total Sill Sil AFF (IIICI FIGV. Ite	Dutoj		,	.2,207.30				10,002.00	•	1,145.07	3.30 /6			,	10,101.54	•		1.2076				.4,115.00	Ť	001.1Z	7.0078
Loss Factor (%)		3.3500%	1			3.3800%							3.3800%							3.3800%					
2000 - 4010- (/6)		0.000070	1			0.000070						-	0.000070	ļ.					_	0.000070					

Applicable to eligible customers only	Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the .Charge \$ columns provide breakdowns or the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filling must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service 50 to 1,499 KW

TOU / non-TOU: TOU

Consumption 255,500 kWh May 1 - October 31 1,000 KW

		Current Board-Approved					2024 Proposed					Impact 20	024 vs 2023			2025 Prop	nend	_	Impact 202	5 ve 2024	
		\vdash	Rate	Volume		Charge	1 -	Rate		Volume	Charge	-1 h	impact 20	724 43 2023	1 -	Rate	Volume	Charge	-	impact zoz	J V3 2024
	Charge Unit		(\$)	***************************************	`	(\$)		(\$)		• 0.0	(\$)		\$ Change	% Change		(\$)	· · · · · · · · · · · · · · · · · · ·	(\$)		\$ Change	% Change
Monthly Service Charge	Monthly	\$	200.0000	- 1	\$	200.00		230.5	500	1	\$ 230.55	1	\$ 6.95		\$		1	\$ 235.78	\$	5.23	2.27%
Smart Meter Rate Adder				1	\$	-				1	\$ -		\$ -				1	\$ -	\$	-	
Rate Rider Calculation for Gain an	dper kW	\$	-	1000	\$	-		5	-	1000	\$ -		\$ -		\$	-	1000	\$ -	\$	-	
Rate Rider Calculation for PILs	per kW	\$	-		\$	-		5	-		\$ -		\$ -		\$	-	1000	\$ -	\$	-	
Rate Rider Calculation for Generic	per kW	\$	-	1000	\$	-		5	-		\$ -		\$ -		\$	-	1000	\$ -	\$	-	
				1	\$	-					\$ -		\$ -				1	\$ -	\$	-	
Distribution Volumetric Rate	per kW	\$	4.8760	1,000	\$	4,876.00		6.50	058		\$ 6,505.80)	\$ 244.80	3.91%	\$	6.6955	1,000	\$ 6,695.50	\$	189.70	2.92%
Smart Meter Disposition Rider					\$	-					\$ -		\$ -				255500	\$ -	\$	-	
LRAM Rate Rider	per kW	\$	-	1,000	\$	-		5	-		\$ -		\$ -		\$	-	1,000	\$ -	\$	-	
				255500	\$	-					\$ -		\$ -				255500	\$ -	\$	-	
				255500	\$	-					\$ -		\$ -				255500	\$ -	\$	-	
					\$	-				255500	\$ -		\$ -				255500	\$ -	\$	-	
				255500	\$	-				255500	\$ -		\$ -				255500	\$ -	\$	-	
Deferral/Variance Account	per kW	\$	0.1717																		
Disposition Rate Rider Class 2				1000	\$	171.70		5	-	1000	\$ -		\$ -		\$	-	1000	\$ -	\$	-	
				255500		-					\$ -		\$ -				255500	\$ -	\$	-	
				255500	\$	-				255500	\$ -		\$ -				255500	\$ -	\$	-	
Sub-Total A (excluding pass the					\$	5,247.70					\$ 6,736.35		\$ 251.75	3.88%				\$ 6,931.28	\$	194.93	2.89%
Deferral/Variance Account	per kW	-\$	0.0403					5	-						\$	-					
Disposition Rate Rider Class 1				1,000	-\$	40.30				1,000	\$ -		\$ -				1,000	\$ -	\$	-	
Deferral/Variance Account	per kWh	-\$	0.0015																		
Disposition Rate Rider - Global				255500	-\$	383.25		5	-	255500	\$ -		\$ -		\$	-	255500	\$ -	\$	-	
Adjustment																					
Deferral / Variance Accounts	per kW	-\$	0.0247																		
Balances (excluding Global Adj.) -				1000	-\$	24.70		5	-	1000	\$ -		\$ -		\$	-	1000	\$ -	\$	-	
NON-WMP																					
Low Voltage Service Charge	per kW	\$	0.02452	1,000	\$	24.52		0.02	518	1,000	\$ 25.18		\$ 0.24	0.96%	\$	0.02552	1,000	\$ 25.52	\$	0.34	1.35%
Line Losses on Cost of Power				8,559	\$	-				8,636	\$ -		\$ -				8,636	\$ -	\$	-	
Smart Meter Entity Charge	Monthly	\$	-	1	\$	-		5	-	1	\$ -	_	\$ -		\$	-	1	\$ -	\$	-	
Sub-Total B - Distribution					s	4,823.97					\$ 6,761.53	ı I	\$ 251.99	3.87%				\$ 6,956.80	s	195.27	2.89%
(includes Sub-Total A)							!				* -,				1 1						
RTSR - Network	per kW	\$	2.9017	1000	\$	2,901.70		2.90	017	1000	\$ 2,901.70	1	\$ -	0.00%	S	2.9017	1000	\$ 2,901.70	\$	-	0.00%
RTSR - Line and Transformation	per kW	s	2.0474	1000	\$	2,047.40		5 2.04	474	1000	\$ 2,047.40	ıll	s -	0.00%	s	2.0474	1000	\$ 2,047.40	s	_	0.00%
Connection	p=:				*	_,					-,	1 1	•					-,	Ť		0.00.1
Sub-Total C - Delivery					s	9,773.07					\$ 11,710.63	: 1	\$ 251.99	2.20%				\$ 11,905.90	s	195.27	1.67%
(including Sub-Total B)					-	-, -	l 1				. ,	-		-	-			. ,	- Li		
Wholesale Market Service	per kWh	\$	0.0034	264059	\$	897.80		0.00	034	264136	\$ 898.06	:	\$ -	0.00%	\$	0.0034	264136	\$ 898.06	\$	-	0.00%
Charge (WMSC)	14476	_	0.0005						205						s	0.0005					
Rural and Remote Rate Protection (RRRP)	per kWh	\$	0.0005	264059	s	132.03	1	0.00	005	264136	\$ 132.07	.	\$ -	0.00%	\$	0.0005	264136	\$ 132.07	s	-	0.00%
		_	0.0500		s	0.05		0.6	200		\$ 0.68	. 1 1		3.03%	s	0.7000		\$ 0.70	s	0.00	2.94%
	Monthly	\$	0.2500	004050		0.25				1			\$ 0.02 \$ -		S		004400		5	0.02	
Average IESO Wholesale Market I	rice	\$	0.1101	264059	\$	29,072.92	1	0.1	101	264136	\$ 29,081.36	1	\$ -	0.00%	\$	0.1101	264136	\$ 29,081.36	5	-	0.00%
																	l				
		_													∤ ⊨				_	_	
Total Bill on TOU (before Taxes)	T			s	39.876.07					\$ 41.822.80	1	\$ 252.01	0.61%	1 –			\$ 42,018.09	\$	195.29	0.47%
HST	•		13%		\$	5,183.89			13%		\$ 5,436.96	i I I	\$ 32.76	0.61%		13%		\$ 5,462.35	s	25.39	0.47%
Total Bill (including HST)					Š	45,059.96					\$ 47,259.77		\$ 284.77	0.61%				\$ 47,480.44	Š	220.68	0.47%
Provincial Rebate					s	_					S -		\$ -					\$ -	s	_	-
Total Bill on TOU (incl Prov. Re	hato)				s	45,059.96					\$ 47,259.77		\$ 284.77	0.61%				\$ 47,480.44	s	220.68	0.47%
Total Bill on 100 (IIICI Prov. Re	Date)	_			4	45,055.50					41,233.11	_	φ 204.//	0.61%	i ⊨			₹ ₹1,460.44	- 3	420.00	0.47 %
Total Bill on RPP (before Taxes)				\$	10,803.15	Г				\$ 12,741.44		\$ 252.01	2.02%	1 –			\$ 12,936.73	\$	195.29	1.53%
HST	-	1	13%		\$	1,404.41			13%		\$ 1,656.39		\$ 32.76		1 1	13%	1	\$ 1,681.77	\$	25.39	1.53%
Total Bill (including HST)		1			\$	12,207.56					\$ 14,397.83		\$ 284.77	2.02%	1 1			\$ 14,618.50	\$	220.68	1.53%
Provincial Rebate		1			s						s -		\$ -	1	1 1			\$ -	\$		
Total Bill on RPP (incl Prov. Rel	nato)				s	12,207.56					\$ 14,397.83		\$ 284.77	2.02%				\$ 14,618.50	5	220.68	1.53%
Total Dill Cit für (IIICI FTOV. INCI	Julioj				Ť	.2,207.30					¥ 14,337.03		204.77	2.02 /	i =			4 .4,010.30	Ť	220.00	1.55/6
•															_						
Loss Factor (%)			3.3500%					3.38	00%							3.3800%	4				

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

note that the Charge \$ columns provide breakdowns of the amounts that each bill component contributionsumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP ra

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Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020

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Appendix 2-W Bill Impacts

Customer Class: General Service 1,500 to 4,999 KW

TOU / non-TOU: TOU

Consumption 1,277,500 kWh May 1 - October 31

O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Consumption	2,500		May 1 - October 31		O No	vember 1 - April 30 (Se	lect this radio button for	or applic	cations filed after Oc	t 31)														
			rrent Board-Ap				2021 Proposed			Impact 2021 vs 2020			2022 Propose			Impact 2022 v	vs 2021			2023 Propos	ed	In	pact 2023	vs 2022	
	Charge Unit	Rate (\$)	Volume	Charge (\$)		Rate (\$)	Volume	Charge (\$)		\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	١,	S Change	% Change		Rate (\$)	Volume	Charge (\$)		hange	% Change
Monthly Service Charge	Monthly	\$ 4,193.93	1 5	(.,		4,193.93	1 \$	4,193.93	\$	- Change	0.00%	- 1	4,325.38	1 \$	4,325.38	\$	131.45	3.13%		4,424.57	1 \$	4,424.57	\$	99.19	2.29%
Smart Meter Rate Adder			1 5	\$ -			1 \$	-	\$	-				1 \$	-	\$	-				1 \$	-	\$	-	
Rate Rider Calculation for Gain ar Rate Rider Calculation for PILs	per kW	\$ - \$ -	2500 S		\$	-	2500 \$ 2500 \$	-	\$	-		\$	=	2500 \$ 2500 \$	-	\$	-		\$	-	2500 \$ 2500 \$	-	\$	-	
Rate Rider Calculation for Generic		s -	2500		Š		2500 \$	-	ŝ			\$	-	2500 \$		Š			s		2500 \$		s		
			1 3	\$ -			1 \$		\$					1 \$		\$					1 \$		\$		
Distribution Volumetric Rate Smart Meter Disposition Rider	per kW	\$ 4.4562	2,500 S		\$	5.1438	2,500 \$ 1277500 \$	12,859.50	\$	1,719.00	15.43%	\$	5.5669	2,500 \$ 1277500 \$	13,917.25	\$	1,057.75	8.23%	\$	5.9564	2,500 \$ 1277500 \$,	\$	973.75	7.00%
LRAM Rate Rider	per kW	s -	2,500	\$ -	\$	0.0483	2,500 \$	120.75	\$	120.75		\$	0.0483	2,500 \$	120.75	\$	-	0.00%			2,500 \$		-\$	120.75	-100.00%
			1277500				1277500 \$	-	\$	-				1277500 \$	-	\$	-				1277500 \$		\$	-	
			1277500 S	\$ -			1277500 \$ 1277500 \$		\$	-				1277500 \$ 1277500 \$	-	\$	-				1277500 \$ 1277500 \$		\$	-	
			1277500	\$ -			1277500 \$	-	\$	-				1277500 \$	-	\$	-				1277500 \$		\$		
Deferral/Variance Account	per kW	\$ 0.2427																							
Disposition Rate Rider Class 2			2,500	\$ 606.75	-\$	0.2761	2,500 -\$	690.25	-\$	1,297.00	-213.76%	-\$	0.2763	2,500 -\$	690.75	-\$	0.50	0.07%	\$	-	2,500 \$	-	\$	690.75	-100.00%
			1277500	\$ -			1277500 \$	-	\$	-				1277500 \$	-	\$	-				1277500 \$	-	\$	-	
Out Total & (sustanting	b)		1277500	\$ -			1277500 \$	-	\$		0.455			1277500 \$	47.070.00	\$	4 400 75	7.040/			1277500 \$	-	\$	-	0.000
Sub-Total A (excluding pass the Deferral/Variance Account	per kW	-\$ 0.0719		\$ 15,941.18	-		\$	16,483.93	\$	542.75	3.40%	-		\$	17,672.63	\$	1,188.70	7.21%			\$	19,315.57	\$	1,642.94	9.30%
Disposition Rate Rider Class 1			2,500 -	\$ 179.75	-\$	0.1983	2,500 -\$	495.75	-\$	316.00	175.80%	-\$	0.1984	2,500 -\$	496.00	-\$	0.25	0.05%	\$	-	2,500 \$	-	\$	496.00	-100.00%
Deferral/Variance Account	per kWh	-\$ 0.0015																							
Disposition Rate Rider - Global			1277500 -	\$ 1,916.25	\$	0.0026	1277500 \$	3,321.50	\$	5,237.75	-273.33%	\$	-	1277500 \$	-	-\$	3,321.50	-100.00%	\$	-	1277500 \$	-	\$	-	
Adjustment Deferral / Variance Accounts	per kW	e .																							
Balances (excluding Global Adj.) -	poi KVV	•	2,500	\$ -	-\$	0.1176	2,500 -\$	294.00	-\$	294.00		\$	-	2,500 \$	-	\$	294.00	-100.00%	\$	-	2,500 \$	-	\$	-	
NON-WMP																									
Low Voltage Service Charge Line Losses on Cost of Power	per kW	\$ 0.02621	2,500 S 42,796 S		\$	0.02601	2,500 \$ 43,180 \$	65.03	-\$	0.50	-0.76%	\$	0.02635	2,500 \$ 43,180 \$	65.88	\$	0.85	1.31%	\$	0.02666	2,500 \$ 43,180 \$		\$	0.78	1.18%
Smart Meter Entity Charge	Monthly	\$ -	1 3		\$	-	1 \$	-	\$	-		\$	-	1 \$	-	\$	-		\$	-	1 \$	-	\$		
Sub-Total B - Distribution				\$ 13,910.71			\$	19,080.71	\$	5,170.00	37.17%			\$	17,242.51	-\$	1,838.20	-9.63%			s	19,382.22	\$	2,139.72	12.41%
(includes Sub-Total A) RTSR - Network	per kW	\$ 3.0128	2500	\$ 7.532.00	S	3.0128	2500 \$	7,532.00	\$	-	0.00%	S	3.0128	2500 \$	7,532.00	s	-	0.00%	\$	3.0128	2500 S	7,532.00	s	- 1	0.00%
RTSR - Line and Transformation	per kW	\$ 2.1882	2500		s	2.1882	2500 \$	5.470.50	s	_	0.00%	s		2500 \$	5.470.50	s	_	0.00%	s	2.1882	2500 S		s	_	0.00%
Connection Sub-Total C - Delivery				,	-			.,	ŀ			Ė			.,	÷						-,	Ė		
(including Sub-Total B)			,	\$ 26,913.21			\$	32,083.21	\$	5,170.00	19.21%			\$	30,245.01	-\$	1,838.20	-5.73%			\$	32,384.72	\$	2,139.72	7.07%
Wholesale Market Service	per kWh	\$ 0.0034	1320296	\$ 4,489.01	\$	0.0034	1320680 \$	4,490.31	\$	1.30	0.03%	\$	0.0034	1320680 \$	4,490.31	\$	-	0.00%	\$	0.0034	1320680 \$	4,490.31	\$	-	0.00%
Charge (WMSC) Rural and Remote Rate	per kWh	\$ 0.0005			s	0.0005						s	0.0005						s	0.0005					
Protection (RRRP)		-	1320296	\$ 660.15			1320680 \$	660.34	\$		0.03%			1320680 \$	660.34	\$	-	0.00%	-		1320680 \$		\$	-	0.00%
Standard Supply Service Charge Average IESO Wholesale Market	Monthly	\$ 0.2500 \$ 0.1101	1320296	0.25 145,364.62	\$	0.6200	1 \$ 1320680 \$	0.62 145,406.81	\$		148.00% 0.03%	\$	0.0400	1 \$ 1320680 \$	0.64 145,406.81	\$	0.02	3.23% 0.00%	\$	0.6600	1 \$ 1320680 \$	0.66 145,406.81	\$	0.02	3.13% 0.00%
Average IEGO VITolesale Market	TICE	9 0.1101	1320230	143,304.02	9	0.1101	1320000 \$	143,400.01	Ψ.	42.20	0.0370	9	0.1101	1320000 \$	143,400.01	,	-	0.0070	Ψ	0.1101	1320000 \$	143,400.01	,	-	0.0070
Total Pill on TOU (hota T				£ 477.407.00				192 644 00	-	E 244 00	2.04%				490 902 11		4 020 40	1.019/			_	492.042.04		2 420 72	4.400/
Total Bill on TOU (before Taxes HST	")	13%		\$ 177,427.23 \$ 23.065.54		13%	\$	182,641.29 23.743.37	\$	5,214.06 677.83	2.94% 2.94%		13%	\$	180,803.11 23.504.40	-\$ -\$	1,838.18 238.96	-1.01% -1.01%	1	13%	\$ \$	182,942.84 23.782.57	s	2,139.73 278.17	1.18%
Total Bill (including HST)				\$ 200,492.77			\$	206,384.66	\$	5,891.89	2.94%			\$	204,307.51	-\$	2,077.14	-1.01%			Š	206,725.41	\$	2,417.90	1.18%
Provincial Rebate				-			\$	-	\$					\$	-	\$					S	-	\$	-	
Total Bill on TOU (incl Prov. Re			:	\$ 200,492.77	_		\$	206,384.66	\$	5,891.89	2.94%			\$	204,307.51	-\$	2,077.14	-1.01%			\$	206,725.41		2,417.90	1.18%
Total Bill on RPP (before Taxes)	,		\$ 32,062.61		4001	\$	37,234.48	\$	5,171.86	16.13%		4001	\$	35,396.30	-\$	1,838.18	-4.94%		4001	\$	37,536.03	\$	2,139.74	6.05%
Total Bill (including HST)		13%		\$ 4,168.14 \$ 36.230.75		13%	\$ \$	4,840.48 42.074.96	\$	672.34 5.844.21	16.13% 16.13%		13%	\$	4,601.52 39.997.81	-5 -S	238.96 2.077.14	-4.94% -4.94%	1	13%	S S	4,879.68 42.415.71	s	278.17 2.417.90	6.05% 6.05%
Provincial Rebate				\$ -			\$	-	\$	-,,,,,,,,,,,	. 3.10%			\$	-	\$	-,=,,,,,,,,,	5-470			S	-	\$	-	2.00%
Total Bill on RPP (incl Prov. Re	bate)			\$ 36,230.75			\$	42,074.96	\$	5,844.21	16.13%			\$	39,997.81	-\$	2,077.14	-4.94%			\$	42,415.71	\$	2,417.90	6.05%
Loss Factor (%)		3.3500%]			3.3800%	I						3.3800%							3.3800%]				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the .Charge \$ columns provide breakdowns or the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Customer Class: General Service 1,500 to 4,999 KW

TOU / non-TOU: TOU

Consumption 1,277,500 kWh May 1 - October 31 2,500 KW

		Current Board-Approved					2024 Proposed						г	Impact 2024	4 vs 2023	г			2025 Prop	osed	ſ		Impact 202	5 vs 2024
Charge Unit Monthly Service Charge Monthly Smart Meter Rate Adder			Rate (\$)	Volume	Cha (\$	irge 6)		Rate (\$)		Volume	Cha (\$			\$ Change	% Change		Rat (\$)		Volume		Charge (\$)		Change	% Change
	Monthly	\$	4,193.93	1	\$	4,193.93			2.54	1	\$	4,442.54	\$	17.97	0.41%			42.54	1	\$	4,442.54	\$	-	0.00%
					\$	-					\$	-	\$	-					1	\$	-	\$	-	
Rate Rider Calculation for Gain an		\$	-	2500		-		\$	-		\$	-	\$	-			\$	-	2500		-	\$	-	
Rate Rider Calculation for PILs	per kW	\$	-	2500		-	5		-	2500	\$	-	\$	-			\$	-	2500	\$	-	\$	-	
Rate Rider Calculation for Generic	per kW	\$	-	2500		-	5	5	-	2500	\$	-	\$	-			\$	-	2500	\$	-	\$	-	
Distribution Volumetric Date	per kW	s	4.4562	2.500	\$	-	5		2424	0.500	\$ \$ 1	-	\$	745.00	4.80%		\$ 6	4281	0.500	\$	40.070.05	\$	404.05	2.97%
Distribution Volumetric Rate Smart Meter Disposition Rider	per kvv	3	4.4002	1277500		11,140.50	3	0.4	2424	2,500 1277500	\$	15,606.00	\$	715.00	4.80%		э б.	4281	2,500 1277500	\$	16,070.25	\$	464.25	2.97%
LRAM Rate Rider	per kW	s		2,500	S	-				2,500	s	-	S	-					2,500	3		\$	-	
LRAW Rate Rider	per Kvv	9	-	1277500		-				1277500	s	-	s	- 1					1277500	9	-	s	-	
				1277500		-				1277500	s	-	s	-					1277500	s s		s		
				1277500		- 1				1277500	S		Š	1					1277500		1	\$		
				1277500		_					Š	-	Š	_					1277500		_	ŝ	_	
Deferral/Variance Account	per kW	s	0.2427										1							,		*		
Disposition Rate Rider Class 2				2,500	\$	606.75	5	3	-	2,500	\$	-	\$	-			\$	-	2,500	\$	-	\$	-	
				1277500		-						-	\$	-					1277500		-	\$	-	
				1277500		-				1277500	\$	-	\$	-					1277500	\$	-	\$	-	
Sub-Total A (excluding pass thr		-			\$	15,941.18	-				\$ 2	20,048.54	\$	732.97	3.79%	-				\$	20,512.79	\$	464.25	2.32%
Deferral/Variance Account	per kW	-\$	0.0719		_												_			_				
Disposition Rate Rider Class 1				2,500	-5	179.75	\$	•	-	2,500	\$	-	\$	-			\$	-	2,500	\$	-	\$	-	
Deferral/Variance Account	per kWh	-s	0.0015																					
Disposition Rate Rider - Global	poi kirii		0.0010	1277500	-S	1.916.25	5		_	1277500	s	-	s	_			s		1277500	s	-	\$	_	
Adjustment				1211000	•	1,010.20	,			1277000	•		-				~		1211000	,		"		
Deferral / Variance Accounts	per kW	\$	-																					
Balances (excluding Global Adj.) -	•			2,500	\$	-	5	\$	-	2,500	\$	-	\$	-			\$	-	2,500	\$	-	\$	-	
NON-WMP																								
Low Voltage Service Charge	per kW	\$	0.02621	2,500	\$	65.53	5	0.02	2691	2,500	\$	67.28	\$	0.63	0.94%		\$ 0.0	2728	2,500	\$	68.20	\$	0.92	1.37%
Line Losses on Cost of Power				42,796	\$	-				43,180	\$	-	\$	-					43,180	\$	-	\$	-	
Smart Meter Entity Charge	Monthly	\$	-	1	\$	-	5	•	-	1	\$	-	\$	-		1	\$	-	1	\$	-	\$	-	
Sub-Total B - Distribution					\$	13,910.71					\$ 2	20,115.82	\$	733.60	3.78%					\$	20,580.99	\$	465.17	2.31%
(includes Sub-Total A) RTSR - Network	per kW	s	3.0128	2500		7,532.00	5	. 21	0128	2500	S	7.532.00	s	-	0.00%	-	\$ 3	0128	2500	\$	7.532.00	\$		0.00%
RTSR - Line and Transformation		-										,	1.	-							,	1.	-	
Connection	per kW	\$	2.1882	2500	\$	5,470.50	5	2.	1882	2500	\$	5,470.50	\$	-	0.00%		\$ 2.	1882	2500	\$	5,470.50	\$	-	0.00%
Sub-Total C - Delivery		+					-									-								
(including Sub-Total B)					\$	26,913.21					\$ 3	33,118.32	\$	733.60	2.27%					\$	33,583.49	\$	465.18	1.40%
Wholesale Market Service	per kWh	\$	0.0034	1320296		4.489.01	5	0.0	0034	1320680	s	4,490.31	s		0.00%		\$ 0.	.0034	1320680	\$	4,490.31	s	_	0.00%
Charge (WMSC)				1320290	•	4,409.01				1320000	a .	4,490.31	٦	-	0.00%				1320000	a .	4,490.31	a	-	0.0076
Rural and Remote Rate	per kWh	\$	0.0005	1320296	s	660.15	5	0.0	0005	1320680	s	660.34	s	_	0.00%		\$ 0.	.0005	1320680	s	660.34	\$	_	0.00%
Protection (RRRP)				1020200						1020000			1.						1020000					
	Monthly	\$	0.2500	1	\$	0.25	5		0088	4000000	\$	0.68	\$	0.02	3.03%			7000	1000000	\$	0.70	\$	0.02	2.94%
Average IESO Wholesale Market F	Price	\$	0.1101	1320296	\$ 14	45,364.62	3	6 0.	1101	1320680	\$ 14	15,406.81	\$	-	0.00%		\$ 0.	1101	1320680	\$	145,406.81	\$	-	0.00%
																				l				
																				l				
																						—		
Total Bill on TOU (before Taxes)	1				77,427.23						33,676.46	\$	733.61	0.40%					\$	184,141.65	\$	465.20	0.25%
HST		1	13%			23,065.54			13%			23,877.94	\$	95.37	0.40%			13%		\$	23,938.41	\$	60.48	0.25%
Total Bill (including HST) Provincial Rebate		1			\$ 2	00,492.77					a 20	07,554.40	\$	828.98	0.40%					\$	208,080.07	\$	525.67	0.25%
	L-4-\				*						•	7.554.46	\$	000.55	0.4534					•	-			0.0551
Total Bill on TOU (incl Prov. Ret	pate)	_			\$ 2	00,492.77	_				\$ 20	07,554.40	\$	828.98	0.40%	_				\$	208,080.07	\$	525.67	0.25%
Total Bill on RPP (before Taxes))				\$:	32,062.61	· [38,269.65	\$	733.61	1.95%	П				\$	38,734.84	\$	465.20	1.22%
HST		1	13%		\$	4,168.14			13%			4,975.05	\$	95.37	1.95%			13%		\$	5,035.53	\$	60.48	1.22%
Total Bill (including HST)		1				36,230.75					\$ 4	13,244.70	\$	828.98	1.95%					\$	43,770.37	\$	525.67	1.22%
Provincial Rebate		1			\$	-					\$	-	\$	-						\$	-	\$	-	
Total Bill on RPP (incl Prov. Reb	oate)				\$:	36,230.75					\$ 4	13,244.70	\$	828.98	1.95%					\$	43,770.37	\$	525.67	1.22%
Loss Factor (%)			3.3500%					3 31	800%							П	3.3	800%						
		_	5.000070				<u> </u>	0.0								_	0.0							

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

note that the Charge 5 columns provide breakdowns of the amounts that each bill component contributes consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, the to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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Hydro Ottawa Limited EB-2019-0261 Exhibit 8 Tab 12 Schedule 1 Attachment A **UPDATED** May 5, 2020

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Appendix 2-W Bill Impacts

Customer Class: General Service 1,500 to 4,999 KW

TOU / non-TOU: TOU

Consumption 1,277,500 kWh May 1 - October 31 November 1 - April 30 (Select this radio button for applications filed after Oct 31)

			4,000		.,		0		Sect this ratio button to	uppi																
		_	Cur Rate	rent Board-A Volume			D-4-	2021 Proposed Volume		F	Impact 2021	vs 2020	<u> </u>	D.t.	2022 Proposed Volume			Impact 2022	vs 2021	F	D-4-	2023 Proposed		-	Impact 202	3 vs 2022
	Charge Unit		(\$)	Volume	Charge (\$)		Rate (\$)	Volume	Charge (\$)		\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	s	Change	% Change		Rate (\$)	Volume	Charge (\$)	9	Change	% Change
Monthly Service Charge	Monthly		4.193.93	1	\$ 4,193.93	\$	4.193.93	1 \$	4,193.93	s		0.00%	\$	4.325.38	1 S	4.325.38	s	131.45	3.13%	\$		1 \$	4,424.57	s	99.19	2.29%
Smart Meter Rate Adder	•				\$ -			1 \$	-	\$	· -				1 \$	-	\$	-				1 \$		\$	-	
Rate Rider Calculation for Gain ar		\$	-	4000		\$	-	4000 \$	-	\$	-		\$	-	4000 \$	-	\$	-		\$	-	4000 \$	-	\$	-	
Rate Rider Calculation for PILs Rate Rider Calculation for Generic	per kW	\$		4000 4000	\$ - \$	\$	-	4000 \$ 4000 \$	-	5	-		\$	-	4000 \$ 4000 \$	-	\$	-		\$	-	4000 \$ 4000 \$	-	5	-	
Rate Rider Calculation for Generic	per kvv	٠	-	4000	s -	٥	-	1 \$	-	s			٠	-	1 \$	-	s	- :		9	-	1 \$		s	- 1	
Distribution Volumetric Rate	per kW	\$	4.4562		\$ 17,824.80	\$	5.1438	4,000 \$	20,575.20	\$	2,750.40	15.43%	\$	5.5669	4,000 \$	22,267.60	Š	1,692.40	8.23%	\$	5.9564	4,000 \$	23,825.60	\$	1,558.00	7.00%
Smart Meter Disposition Rider				1277500				1277500 \$	-	\$	-				1277500 \$	-	\$	-				1277500 \$	-	\$	-	
LRAM Rate Rider	per kW	\$	-	4,000 1277500	\$ -	\$	0.0483	4,000 \$ 1277500 \$	193.20	\$	193.20		\$	0.0483	4,000 \$ 1277500 \$	193.20	\$	-	0.00%	\$	-	4,000 \$ 1277500 \$	-	-\$	193.20	-100.00%
				1277500				1277500 \$		\$					1277500 \$		\$	1				1277500 \$		\$	- 1	
				1277500				1277500 \$	-	\$	-				1277500 \$	-	\$	-				1277500 \$	-	\$	-	
				1277500	\$ -			1277500 \$	-	\$	· -				1277500 \$	-	\$	-				1277500 \$	-	\$	-	
Deferral/Variance Account Disposition Rate Rider Class 2	per kW	\$	0.2427	4000	\$ 970.80		0.2761	4000 -\$	1.104.40		2.075.20	-213.76%		0.2763	4000 -S	1.105.20	_	0.80	0.07%	s	_	4000 \$		s	1.105.20	-100.00%
Disposition Rate Rider Class 2				4000	\$ 970.80	-\$	0.2761	4000 - \$	1,104.40	-\$	2,075.20	-213.70%	-2	0.2763	4000 -\$	1,105.20	-\$	0.80	0.07%	3	-	4000 \$	-	3	1,105.20	-100.00%
				1277500	\$ -			1277500 \$	-	\$					1277500 \$	-	\$	-				1277500 \$	-	\$	-	
				1277500				1277500 \$	-	\$	-				1277500 \$	-	\$					1277500 \$	-	\$		
Sub-Total A (excluding pass the Deferral/Variance Account		-S	0.0719		\$ 22,989.53	•	0.1983	\$	23,857.93	\$	868.40	3.78%		0.1984	\$	25,680.98	\$	1,823.05	7.64%	\$		\$	28,250.17	\$	2,569.19	10.00%
Disposition Rate Rider Class 1	per kW	-5	0.0719	4,000	-\$ 287.60	-9	0.1983	4,000 -\$	793.20	-S	505.60	175.80%	-\$	0.1984	4,000 -\$	793.60	-S	0.40	0.05%	\$	-	4,000 \$	_	s	793.60	-100.00%
				,,===				.,		*					.,		1					.,		*		
Deferral/Variance Account Disposition Rate Rider - Global	per kWh	-\$	0.0015	1277500	-\$ 1,916.25	\$	0.0026	1277500 \$	3,321.50	s	5,237.75	-273.33%	s		1277500 \$	-	-S	3,321.50	-100.00%	s	_	1277500 \$	-			
Adjustment				1277300	-ψ 1,810.25			1277300 \$	3,321.30	1	3,237.73	-273.3370	Ψ	-	1277300 \$	-	~	3,321.30	-100.0070	Ψ	-	12//300 \$	-	,	-	
Deferral / Variance Accounts	per kW	\$	-																							
Balances (excluding Global Adj.) -				4000	\$ -	-\$	0.1176	4,000 -\$	470.40	-\$	470.40		\$	-	4000 \$	-	\$	470.40	-100.00%	\$	-	4000 \$	-	\$	-	
NON-WMP Low Voltage Service Charge	per kW	s	0.02621	4,000	\$ 104.84		0.02601	4,000 \$	104.04		0.80	-0.76%	s	0.02635	4,000 \$	105.40	e	1.36	1.31%	•	0.02666	4,000 \$	106.64		1.24	1.18%
Line Losses on Cost of Power	por KVV	9	0.02021		\$ -	Ψ	0.02001	43,180 \$	104.04	\$	0.00	-0.7070	Ψ	0.02033	43,180 \$	103.40	\$	-	1.5170	Ψ	0.02000	43,180 \$	-	\$	1.24	1.10%
Smart Meter Entity Charge	Monthly	\$	-	1	\$ -	\$	-	1 \$	-	\$	-		\$	-	1 \$	-	\$	-		\$	-	1 \$	-	\$	-	
Sub-Total B - Distribution (includes Sub-Total A)					\$ 20,890.52			\$	26,019.87	\$	5,129.35	24.55%			\$	24,992.78	-\$	1,027.09	-3.95%			\$	28,356.81	\$	3,364.03	13.46%
RTSR - Network	per kW	s	3.0128	4000	\$ 12,051.20	\$	3.0128	4000 \$	12,051.20	s	-	0.00%	\$	3.0128	4000 \$	12,051.20	s	-	0.00%	\$	3.0128	4000 \$	12,051.20	s	-	0.00%
RTSR - Line and Transformation	per kW	e	2.1882	4000		\$	2.1882	4000 \$	8,752.80			0.00%		2.1882	4000 \$	8,752.80			0.00%		2.1882	4000 \$	8,752.80			0.00%
Connection	per KVV	*	2.1002	4000	\$ 0,732.00	Ψ	2.1002	4000 \$	0,732.00	ľ	-	0.0070	Ψ	2.1002	4000 \$	0,732.00	*	-	0.0070	Ψ	2.1002	4000 \$	0,732.00			0.0070
Sub-Total C - Delivery (including Sub-Total B)					\$ 41,694.52			\$	46,823.87	\$	5,129.35	12.30%			\$	45,796.78	-\$	1,027.09	-2.19%			\$	49,160.81	\$	3,364.03	7.35%
Wholesale Market Service	per kWh	\$	0.0034	1320296	\$ 4,489,01	\$	0.0034	1320680 \$	4.490.31	s	1.30	0.03%	\$	0.0034	1320680 S	4.490.31	9		0.00%	\$	0.0034	1320680 \$	4.490.31	s	_	0.00%
Charge (WMSC)			0.0005	1320230	4,403.01		0.0005	1320000	4,430.31	1	1.50	0.0370		0.0005	1320000	4,480.51	,	-	0.0070		0.0005	1320000 \$	4,450.51	,	-	0.0070
Rural and Remote Rate Protection (RRRP)	per kWh	3	0.0005	1320296	\$ 660.15	2	0.0005	1320680 \$	660.34	\$	0.19	0.03%	2	0.0005	1320680 \$	660.34	\$	-	0.00%	3	0.0005	1320680 \$	660.34	\$	-	0.00%
Standard Supply Service Charge	Monthly	s	0.2500	1	\$ 0.25	\$	0.6200	1 \$	0.62	\$	0.37	148.00%	\$	0.6400	1 \$	0.64	\$	0.02	3.23%	\$	0.6600	1 \$	0.66	\$	0.02	3.13%
Average IESO Wholesale Market	Price	\$	0.1101	1320296	\$ 145,364.62	\$	0.1101	1320680 \$	145,406.81	\$	42.20	0.03%	\$	0.1101	1320680 \$	145,406.81	\$	-	0.00%	\$	0.1101	1320680 \$	145,406.81	\$	-	0.00%
										\perp																
Total Bill on TOU (before Taxes	3)				\$ 192,208.54			2	197,381.95	S	5,173.41	2.69%			S	196,354.88	-\$	1,027.07	-0.52%			\$	199,718.93	\$	3,364,05	1.71%
HST			13%		\$ 24,987.11		13%	\$	25,659.65	\$	672.54	2.69%		13%	s	25,526.13	-\$	133.52	-0.52%		13%	\$	25,963.46	\$	437.33	1.71%
Total Bill (including HST)					\$ 217,195.65			\$	223,041.61	\$	5,845.95	2.69%			\$	221,881.02	-\$	1,160.59	-0.52%			\$	225,682.39	\$	3,801.38	1.71%
Provincial Rebate	h-4-1				5 -			\$	-	\$	-	0.0001			S	-	\$	4 400 55	0.500			\$	-	\$	0.004.00	4 744
Total Bill on TOU (incl Prov. Re					\$ 217,195.65			\$	223,041.61	\$	5,845.95	2.69%			\$	221,881.02	-\$	1,160.59	-0.52%			\$	225,682.39	\$	3,801.38	1.71%
Total Bill on RPP (before Taxes HST)		13%		\$ 46,843.93 \$ 6.089.71		13%	\$	51,975.14 6,756.77	\$	5,131.21 667.06	10.95%	1	13%	\$	50,948.07 6,623.25	-\$	1,027.07 133.52	-1.98%	1	13%	\$	54,312.12 7,060.58	\$	3,364.05 437.33	6.60% 6.60%
Total Bill (including HST)			13%		\$ 6,089.71 \$ 52.933.64		15%	\$	58.731.91	\$	5,798.27	10.95% 10.95%		13%	s	57.571.32	-S	1,160.59	-1.98% -1.98%		15%	\$	7,060.58 61.372.70	\$	3.801.38	6.60%
Provincial Rebate					\$ -			\$	-	\$	-,				S	-	\$	-,				\$	-	\$	-,	2.2370
Total Bill on RPP (incl Prov. Re	bate)				\$ 52,933.64			\$	58,731.91	\$	5,798.27	10.95%			\$	57,571.32	-\$	1,160.59	-1.98%			\$	61,372.70	\$	3,801.38	6.60%
Loss Factor (%)			3.3500%				3.3800%							3.3800%							3.3800%					

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the .Charge \$ columns provide preakdowns or the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS-50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

Customer Class: General Service 1,500 to 4,999 KW

TOU / non-TOU: TOU

Consumption 1,277,500 kWh May 1 - October 31 4,000 KW

				rent Board-A					2024 Prop			Impact 202	4 vs 2023			2025 Pro		_ [Impact	2025 vs	2024
	Charge Unit		Rate (\$)	Volume		Charge (\$)		Rate (\$)	Volume	Charge (\$)		\$ Change	% Change		Rate (\$)	Volume	Charge (\$)		\$ Chang	e %	Change
Monthly Service Charge	Monthly	\$	4,193.93	1	\$	4,193.93	\$	4,442.54	1	\$ 4,442.54	\$	17.97	0.41%		\$ 4,442.54	1	\$ 4,442.		\$	-	0.00%
Smart Meter Rate Adder				1	\$	-				\$ -	\$					1	\$ -		\$	-	
Rate Rider Calculation for Gain an		\$	-	4000		-	\$	-	4000	\$ -	\$				\$ -	4000	\$ -		\$		
Rate Rider Calculation for PILs Rate Rider Calculation for Generic	per kW	\$	-	4000 4000		-	\$	-	4000 4000	\$ - \$ -	\$				\$ - \$ -	4000 4000	\$ - \$ -		\$ \$		
Rate Rider Calculation for Generic	per KVV	3	-	4000	\$	-	٩	-	4000	\$ -	S				• -	4000	\$ -		\$		
Distribution Volumetric Rate	per kW	\$	4.4562	4,000	s	17,824.80	s	6.2424	4.000	\$ 24,969.60	Š		4.80%		\$ 6.4281	4,000	\$ 25,712.		\$ 742	80	2.97%
Smart Meter Disposition Rider					\$	-	1		1277500	\$ -	Š					1277500	\$ -		s		
LRAM Rate Rider	per kW	\$	-	4,000	\$	-	\$	-	4,000	\$ -	\$	-			\$ -	4,000	\$ -		\$	-	
				1277500		-			1277500	\$ -	\$					1277500	\$ -		\$	-	
				1277500		-			1277500	\$ -	\$					1277500	\$ -		\$		
				1277500		-			1277500	\$ -	\$					1277500	\$ -		\$	-	
Deferral/Variance Account	per kW	s	0.2427	1277500	\$	-			1277500	\$ -	\$	-				1277500	\$ -		\$	-	
Disposition Rate Rider Class 2	per kvv	3	0.2427	4000	¢	970.80	s		4000	•	s	-			s -	4000	s -		s		
Disposition Nate Nider Class 2				4000	Ψ	370.00	Ψ	-	4000	-					-	4000	-		•		
				1277500	\$	-			1277500	\$ -	\$	-				1277500	s -		\$	-	
				1277500		-			1277500	\$ -	\$	-				1277500	\$ -		\$	-	
Sub-Total A (excluding pass the		ļ.,			\$	22,989.53				\$ 29,412.14	\$	1,161.97	4.11%	L			\$ 30,154.	94	\$ 742	.80	2.53%
Deferral/Variance Account	per kW	-\$	0.0719	4.000	-s	007.00	\$	-	4.000	s -	s				\$ -	4.000	s -		s		
Disposition Rate Rider Class 1				4,000	-3	287.60			4,000	•	3	-				4,000	-		\$	-	
Deferral/Variance Account	per kWh	-\$	0.0015																		
Disposition Rate Rider - Global				1277500	-\$	1,916.25	\$	-	1277500	\$ -	\$	-			\$ -	1277500	\$ -		\$	-	
Adjustment																					
Deferral / Variance Accounts	per kW	\$	-	4000	_		s		4000	_	s				s -		s -		\$		
Balances (excluding Global Adj.) - NON-WMP				4000	3	-	3	-	4000	a -	3	-			\$ -	4000	\$ -		\$	-	
Low Voltage Service Charge	per kW	s	0.02621	4.000	s	104.84	s	0.02691	4.000	\$ 107.64	s	1.00	0.94%		\$ 0.02728	4.000	\$ 109.	12	s 1	48	1.37%
Line Losses on Cost of Power				42,796	\$	-				\$ -	\$					43,180	\$ -	-	\$		
Smart Meter Entity Charge	Monthly	\$	-	1	\$	-	\$	-	1	\$ -	\$	-			\$ -	1	\$ -		\$	-	
Sub-Total B - Distribution					\$	20,890.52				\$ 29,519.78	\$	1,162.97	4.10%				\$ 30,264.	06	\$ 744	.28	2.52%
(includes Sub-Total A) RTSR - Network	per kW	s	3.0128	4000	s	12.051.20	S	3.0128	4000	\$ 12.051.20	s		0.00%	-	\$ 3.0128	4000	\$ 12.051.	20	s		0.00%
RTSR - Line and Transformation	•	s				,	_				s						. ,		-		
Connection	per kW	\$	2.1882	4000	\$	8,752.80	\$	2.1882	4000	\$ 8,752.80	\$	-	0.00%		\$ 2.1882	4000	\$ 8,752.	80	\$		0.00%
Sub-Total C - Delivery (including Sub-Total B)					\$	41,694.52				\$ 50,323.78	\$	1,162.97	2.37%				\$ 51,068.	06	\$ 744	.28	1.48%
Wholesale Market Service	per kWh	\$	0.0034	1320296		4,489.01	\$	0.0034	1320680	\$ 4,490.31	s		0.00%	T I	\$ 0.0034	1320680	\$ 4,490.	24	s		0.00%
Charge (WMSC)				1320290	3	4,489.01			1320680	\$ 4,490.31	•		0.00%			1320680	\$ 4,490.	31	3	-	0.00%
Rural and Remote Rate	per kWh	\$	0.0005	1320296	\$	660.15	\$	0.0005	1320680	\$ 660.34	\$		0.00%		\$ 0.0005	1320680	\$ 660.	34	\$		0.00%
Protection (RRRP) Standard Supply Service Charge	Monthly	s	0.2500		s	0.25	s	0.6800	4	\$ 0.68	s		3.03%		\$ 0.7000		\$ 0.	- 1 1		.02	2.94%
Average IESO Wholesale Market I		s	0.2300	1320296		145,364.62	\$		1320680		S		0.00%		\$ 0.7000	1320680	\$ 145,406.		\$		0.00%
Average index viviologale market	1100	•	0.1101	1020200	Ť	140,004.02	"	0.1101	1020000	140,400.01	*		0.0070		0.1101	1020000	140,400.	.	•		0.0070
		_									4			ı 🖢					_		
Total Bill on TOU (before Taxes	:)				\$	192,208.54				\$ 200,881.92	. \$		0.58%	· [\$ 201,626.		\$ 744		0.37%
HST			13%		\$	24,987.11		13%		\$ 26,114.65	\$		0.58%		13%		\$ 26,211.			.76	0.37%
Total Bill (including HST) Provincial Rebate					\$	217,195.65				\$ 226,996.57	\$	1,314.18	0.58%				\$ 227,837	53	\$ 841	.06	0.37%
Total Bill on TOU (incl Prov. Re	hata)				S	217,195.65				\$ 226,996.57	S	1,314.18	0.58%				\$ 227,837.	00	\$ 841	06	0.37%
					•																
Total Bill on RPP (before Taxes)		4000		\$	46,843.93		4001		\$ 55,475.11	\$		2.14%		4001		\$ 56,219.		\$ 744		1.34%
HST Total Bill (including HST)		1	13%		\$	6,089.71 52,933.64		13%		\$ 7,211.76 \$ 62.686.87	\$		2.14% 2.14%		13%	1	\$ 7,308. \$ 63,527.		\$ 96 \$ 841	.76	1.34%
Provincial Rebate		1			\$	32,933.04				ψ 02,000.87	3	1,314.18	2.14%				\$ 03,527.	90	φ 041	.00	1.3470
Total Bill on RPP (incl Prov. Rel	hate)				S	52,933.64				\$ 62,686.87	S	1,314.18	2.14%				\$ 63,527.	93	\$ 841	.06	1.34%
Silver I I I I I I I I I I I I I I I I I I I					-	02,000.04				- 02,000.07	Ť	1,014.10	2470				50,021.		- 541		1.0470
Loss Factor (%)			3.3500%					3.3800%	1					п	3.3800%	1					
2000 . 4010. (70)		_	0.000070				-	5.500070	4					-	0.300070	4					

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

note that the Charge \$ columns provide breakdowns of the amounts that each bill component contributes to consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW) - 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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Appendix 2-W

Customer Class: Large User TOU / non-TOU: TOU

4,000,000 kWh May 1 - October 31 7,500 KW Rate %Change 2.589 \$ Change %Change \$ Change Monthly Service Charge Monthly Smart Meter Rate Adder Rate Rider Calculation for Gain an per kW Rate Rider Calculation for PILs per kW Rate Rider Calculation for Generic per kW 7,500 4000000 7,500 4000000 4.2422 31,816.50 5.3135 7,500 4000000 7,500 4000000 39,851.25 5.7512 3,282.75 3,030.00 7,500 ± 0.0760 570.00 570.00 \$ 0.0762 571.50 0.26% 571.50 -100 00% 0.1830 7.500 1.372.50 0.3463 7.500 2.597.25 3.969.75 -289.23% 0.3470 7.500 -2.602.50 5.25 0.20% 7.500 2.602.50 -100.009 Sub-Total A (excluding pass through)
Deferral/Variance Account per kW 53,055.32 4,635.00 56,727.95 3,672.63 62,069.06 Disposition Rate Rider Class 1 7.500 647.25 0.3099 7.500 2.324.25 1.677.00 259.10% 0.3105 7.500 4 2.328.75 4.50 0.19% 7.500 2.328.75 -100.009 6.000.00 10.400.00 16.400.0 -273.339 10.400.00 per kW 7,500 7,500 7,500 7,500 7,500 24,800 221.33 \$ 0.0293 7,500 20,400 219.68 -0.75% \$ 0.02967 7,500 s 222.53 1.30% \$ 0.03002 225.1 2.63 41,994.40 61,350.75 19,356.35 46.09% 54,621.73 6,729.02 -10.97% 62,294.21 7,672.49 14.05% (includes Sub-Total A) RTSR - Network RTSR - Line and Transformation 2.4642 18.481.50 2.4642 18.481.50 0.00% 2.4642 18.481.50 0.00% \$ 2.4642 18.481.50 0.00% Connection Sub-Total C - Delivery 85,525.15 104,881.50 19,356.35 22.63% 98,152.48 6,729.02 -6.42% 105,824.96 7.82% 7,672.48 (including Sub-Total B) Wholesale Market Service 13,684.32 13,669.36 -0.11% 13,669.36 0.009 13,669.36 0.00% Wholesale Market Service per kWh Charge (WMSC)
Rural and Remote Rate per kWh Protection (RRRP)
Standard Supply Service Charge
Average IESO Wholesale Market Price 0.0005 0.0005 0.0005 0.0005 2,012.40 2,010.20 2.20 -0 119 2,010.20 0.009 4020400 2,010.2 0.00% 0.6400 0.1101 0.6600 0.02 0.25 443,130.48 0.6200 0.1101 0.62 442,646.04 0.37 484.44 148.00% -0.11% 0.64 442,646.04 0.02 3.23% 0.00% 0.66 442,646.04 3.13% 0.00% Total Bill on TOU (before Taxes) HST 13% 70,765.84 615,118.43 73,217.00 636,424.72 2,451.17 21,306.29 72,342.23 628,820.95 73,339.66 637,490.88 Total Bill (including HST) Provincial Rebate Total Bill on TOU (incl Prov. Reb Total Bill on RPP (before Taxes) 101,222.12 13,158.87 114,380.99 6,729.00 874.77 7,603.77

0.5100%

0.5100%

Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

0.5100%

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

HST Total Bill (including HST) 3.38% Total Bill on RPP (incl Prov. Rel

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS+58W (kWh) - 1000, 2000, 5000, 10000, 15000 GS+58W (kWh) - 60, 100, 500, 10000, 15000 Large User - range appropriate for utility Lighting Classes and USL - 150 WW and 1 kW, range appropriate for utility

Hydro Ottawa has undated column Fto reflect the most recent Board Approved TOLL and Tier RPP rates

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Customer Class: Large User TOU / non-TOU: TOU

Consumption 4,000,000 kWh May 1 - October 31

	Consumption	7,500		Pay 1 - Occool 31														
		Current	Board-Appro				2024 Prop		I [Impact 2024	vs 2023			2025 Prop			Impact 2025	vs 2024
		Rate	Volume	Charge		Rate	Volume	Charge					Rate	Volume	Charge			
	Charge Unit Monthly	(\$) \$ 15.231.32		(\$) \$ 15.231.32	- 1	(\$) 15.905.06		(\$) S 15.905.00	, -	\$ Change	% Change 0.00%	-	(\$) 15.905.06		(\$) \$ 15.905.06		\$ Change	% Change 0.00%
Smart Meter Rate Adder	Michigany	φ 10,231.32	1	\$ 10,231.32		10,500.00		\$ 15,500.00		s :	0.00%		10,500.00	1	\$ 15,505.00	l e	- :	0.00%
Rate Rider Calculation for Gain an	per kW	\$ -	7500	\$ -	S	-	7500	\$ -	1 13	š -		S	-	7500	\$ -	š	-	
	per kW	\$ -	7500		\$	-	7500	\$ -		\$ -		9	-	7500		\$	-	
Rate Rider Calculation for Generic	per kW	\$ -	7500	s -	\$	-	7500	s -		s -		9	-	7500		\$		
Distribution Volumetric Rate	per kW	s 4.2422	7.500	\$ 31.816.50	s	6.4494	7.500	\$ 48.370.50		\$ - \$ 2.206.50	4.78%	s	6.6396	7.500	\$ - \$ 49.797.00	S	1.426.50	2.95%
Smart Meter Disposition Rider	pei kw	9 4.2422		\$ 31,010.50	۰	0.4454	4000000	\$ 40,370.00		\$ 2,200.50	4.7070	,	0.0350	4000000	\$ 45,757.00	s	1,420.00	2.50%
	per kW	\$ -		\$ -			7,500	\$ -	1 18	š -					š -	s		
				\$ -			4000000	\$ -		s -				4000000	\$ -	\$	-	
				s -			4000000	\$ -		s -				4000000	s -	\$	-	
				s .			4000000 4000000	s -		s -				4000000 4000000	s -	\$		
Deferral/Variance Account	per kW	\$ 0.1830	4000000	*			4000000		11	-				4000000	•	-		
Disposition Rate Rider Class 2			7,500	\$ 1,372.50	\$		7,500	\$ -	1 1:	s -		9	-	7,500	\$ -	\$	-	
			4000000	s -			4000000	s .	11.	٠.				4000000	s .	١.		
			4000000	\$.			4000000	s -	1 13	s -				4000000	s .	s	- :	
Sub-Total A (excluding pass through	ugh)			\$ 48,420.32				\$ 64,275.56	3	\$ 2,206.50	3.55%	-			\$ 65,702.06	\$	1,426.50	2.22%
	per kW	-\$ 0.0863							7 [
Disposition Rate Rider Class 1			7,500	-\$ 647.25	\$		7,500	\$ -	1 13	s -		5		7,500	\$ -	\$	-	
	per kWh	-\$ 0.0015																
Disposition Rate Rider - Global			4000000	\$ 6,000.00	\$		4000000	\$ -	1 1:	s -		S		4000000	\$ -	\$	-	
Adjustment Deferral / Variance Accounts		s .																
Balances (excluding Global	per kW	\$ -	7.500	. 2	s		7.500	. 2	11,	s .		s		7,500	s .	s		
Adj.) - NON-WMP			.,,	*			.,	ľ	11	-		- 1		.,,	*	1		
	per kW	\$ 0.02951	7,500	\$ 221.33	\$	0.03030	7,500	\$ 227.25		\$ 2.10	0.93%	9	0.03072	7,500	\$ 230.40	\$	3.15	1.39%
Line Losses on Cost of Power Smart Meter Entity Charge	Monthly	•		\$ - \$			20,400	s -	1 13	s -				20,400	s -	\$	-	
Sub-Total B - Distribution	moriumy	•		-			-	-	. 			-			*			
(includes Sub-Total A)				41,554.40				04,002.0	1 1	\$ 2,208.60	3.55%				00,502.40	\$	1,429.65	2.22%
	per kW	\$ 3.3399	7500	\$ 25,049.25	\$	3.3399	7500	\$ 25,049.25	5 :	s -	0.00%	9	3.3399	7500	\$ 25,049.25	\$	-	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 2.4642	7500	\$ 18,481.50	\$	2.4642	7500	\$ 18,481.50) :	s -	0.00%	5	2.4642	7500	\$ 18,481.50	\$		0.00%
Sub-Total C - Delivery				s 85.525.15				S 108.033.56	.t t.	s 2.208.60	2.09%	- 1			\$ 109.463.21	s	1.429.65	1,32%
(including Sub-Total B)				\$ 65,525.15				\$ 108,033.50	, [\$ 2,208.60	2.09%	L			\$ 109,463.21	•	1,429.65	1.32%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0034	4024800	\$ 13,684.32	\$	0.0034	4020400	\$ 13,669.36	3 :	s -	0.00%	9	0.0034	4020400	\$ 13,669.36	\$	-	0.00%
	per kWh	s 0.0005			s	0.0005			. 1 1.	_		s	0.0005			١.		
Protection (RRRP)				\$ 2,012.40			4020400	\$ 2,010.20	11	s -	0.00%			4020400		\$		0.00%
Standard Supply Service Charge		\$ 0.2500		\$ 0.25	\$		- 1	\$ 0.68		\$ 0.02	3.03%	S		1	\$ 0.70	\$	0.02	2.94%
Average IESO Wholesale Market P	rice	\$ 0.1101	4024800	\$ 443,130.48	\$	0.1101	4020400	\$ 442,646.04	1 1	s -	0.00%	S	0.1101	4020400	\$ 442,646.04	\$	-	0.00%
								l	11									
									<u> </u>									
Total Bill on TOU (before Taxes)				\$ 544,352.60				\$ 566,359.84		\$ 2,208.62	0.39%	_ [\$ 567,789.51	\$	1,429.67	0.25%
HST		13%		\$ 70,765.84		13%		\$ 73,626.78		\$ 287.12	0.39%		13%		\$ 73,812.64	\$	185.86	0.25%
Total Bill (including HST) Provincial Rebate				\$ 615,118.43				\$ 639,986.62	1	\$ 2,495.74	0.39%				\$ 641,602.15	\$	1,615.53	0.25%
Total Bill on TOU (incl Prov. Reba	-4-1			\$ 615,118,43				\$ 639,986,62	,	\$ 2,495,74	0.39%				\$ 641,602,15		1,615.53	0.25%
	ato j				=					. ,		- 1				-		
Total Bill on RPP (before Taxes) HST		13%		\$ 101,222.12 \$ 13.158.87		13%		\$ 123,713.80 \$ 16.082.79		\$ 2,208.62 \$ 287.12	1.82% 1.82%		13%		\$ 125,143.47 \$ 16,268.65	\$	1,429.67 185.86	1.16% 1.16%
Total Bill (including HST)		13%		\$ 13,158.87		13%		\$ 139,796.59		\$ 287.12 \$ 2.495.74	1.82%		1.376		\$ 16,268.65 \$ 141,412.12	s	1.615.53	1.16%
3.38%		1		\$ -				\$ -	1 1	\$.		- 1			s -	s	.,	
Total Bill on RPP (incl Prov. Reba	ate)			\$ 114,380.99				\$ 139,796.59	:	\$ 2,495.74	1.82%				\$ 141,412.12	\$	1,615.53	1.16%
												_						
Loss Factor (%)		0.6200%				0.5100%	l						0.5100%					
												_						

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing to their service territory, class by class. A general guideline of consumption levels follows:

Residential (Whh) - 100, 250, 500, 800, 1000, 1500, 2000 (SS+50kW (kWh) - 1000, 2000, 5000, 10000, 15000 (SS+50kW (kWh) - 0, 100, 500, 1000 (SS+50kW (kWh) - 0, 100, 500, 1000 (Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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Customer Class: Large User TOU / non-TOU: TOU

Consumption 4,000,000 kWh May 1 - October 31 10,000 kW

November 1 - April 30 (Select this radio button for applications filed after Oct 31)

			rent Board-Apr	round		2021 Propo	end		Impact 2021 vs	2020			2022 Proposes			Impact 2022 vs	2024	_		2023 Propo	end	Impact	2023 vs 2022
		Rate	Volume	Charge	Rate	Volume	Charge		impact zoz i va	2020	_	Rate	Volume	Charge		Impuct Zozz vo			Rate	Volume	Charge	impaci	
	Charge Unit	(\$)		(\$)	(\$)		(\$)		\$ Change	% Change		(\$)		(\$)		\$ Change	% Change		(\$)		(\$)	\$ Chang	
Monthly Service Charge Smart Meter Rate Adder	Monthly	\$ 15,231.3	1	\$ 15,231.32	\$ 15,231.32	1 \$		\$	-	0.00%	\$ 1	15,624.95	1 \$	15,624.95	\$	393.63	2.58%	\$ 15	5,905.06		\$ 15,905.06	\$ 28	.11 1.79%
Rate Rider Calculation for Gain a		. 2	10000			10000 \$		5					10000 S	- 1	9					10000	s .	\$	
Rate Rider Calculation for PILs		2	10000		\$.	10000 \$		ě			0		10000 S		ě	- 1		ě	- 1		s .	ě	
Rate Rider Calculation for Gener		\$.	10000	š .	\$.	10000 \$		š			Š		10000 S		š			š		10000	š .	š	
				\$ -		1 \$		s					1 \$		\$					1	\$ -	\$	
Distribution Volumetric Rate	per kW	\$ 4.242			\$ 5.3135	10,000 \$		\$	10,713.00	25.25%	s	5.7512	10,000 \$	57,512.00	\$	4,377.00	8.24%	\$	6.1552	10,000	\$ 61,552.00	\$ 4,04	.00 7.02%
Smart Meter Disposition Rider			4000000			4000000 \$		\$					4000000 \$		\$	-					\$ -	\$	
LRAM Rate Rider	per kW	\$ -	10,000 4000000		\$ 0.0760	10,000 \$ 4000000 \$		\$	760.00		s	0.0762	10,000 \$ 4000000 \$	762.00	\$	2.00	0.26%	\$		10,000 4000000	\$.	-\$ 76	-100.00%
			4000000			4000000 S		0					4000000 S		9					4000000	s .	\$:
			4000000			4000000 \$		ŝ					4000000 S	:	ŝ	:				4000000	š :	ŝ	:
			4000000			4000000 S		š					4000000 S		š					4000000	s .	s	
Deferral/Variance Account	per kW	\$ 0.183						1							1							1	
Disposition Rate Rider Class 2			10000	\$ 1,830.00	\$ 0.3463	10000 -\$	3,463.00	-\$	5,293.00	-289.23%	-\$	0.3470	10000 -\$	3,470.00	-\$	7.00	0.20%	\$		10000	\$ -	\$ 3,47	-100.00%
			4000000			4000000 S							4000000 S		١.					4000000	_		
			4000000			4000000 \$		0	-				4000000 \$		9					4000000		\$	
Sub-Total A (excluding pass th	rough)		4000000	\$ 59,483,32		4000000 \$		ě	6.180.00	10.39%			4000000 3	70.428.95	ě	4,765,63	7.26%	_		4000000	\$ 77.457.06	\$ 7.02	.11 9.98%
Deferral/Variance Account	per kW	-S 0.086		9 55,400.52	-\$ 0.3099		00,000.02	-	0,100.00	10.007	-S	0.3105		10,420.00	-	4,700.00	7.2070	S			11,407.00	7,02	
Disposition Rate Rider Class 1			10,000 -	\$ 863.00		10,000 -\$	3,099.00	-\$	2,236.00	259.10%			10,000 -\$	3,105.00	-\$	6.00	0.19%			10,000	s .	\$ 3,10	-100.00%
Deferral/Variance Account Disposition Rate Rider -	per kWh	-\$ 0.001	4000000 -	\$ 6.000.00	\$ 0.0026	4000000 S	10.400.00		16.400.00	-273.33%			4000000 S			10.400.00	-100.00%	s		4000000			
Global Adjustment			4000000	\$ 6,000.00		4000000 \$	10,400.00	5	16,400.00	-2/3.33%	2		4000000 \$		-5	10,400.00	-100.00%	\$		4000000	s -	٥	
Deferral / Variance Accounts	per kW	. 2																					
Balances (excluding Global	,	*	10000	s -	s -	10,000 \$		s			s		10000 \$		s			s		10000	s -	s	
Adj.) - NON-WMP					-						-				1			-			-	-	
Low Voltage Service Charge	per kW	\$ 0.0295	10,000		\$ 0.02929	10,000 \$		-\$	2.20	-0.75%	s	0.02967	10,000 \$	296.70	\$	3.80	1.30%	\$	0.03002	10,000	\$ 300.20	\$.50 1.18%
Line Losses on Cost of Power			24,800	s -	_	20,400 \$		\$	-		١.		20,400 \$	-	\$					20,400	s -	\$	-
Smart Meter Entity Charge	Monthly	\$ -	1	\$ -	\$ -	1 \$		\$			\$		1 \$		\$			\$		1	\$ ·	\$	
Sub-Total B - Distribution (includes Sub-Total A)				\$ 52,915.42		\$	73,257.22	\$	20,341.80	38.44%			\$	67,620.65	-\$	5,636.57	-7.69%				\$ 77,757.26	\$ 10,13	.61 14.99%
RTSR - Network	per kW	s 3.339	10000	\$ 33,399.00	\$ 3,3399	10000 S	33,399.00	s		0.00%	s	3.3399	10000 S	33.399.00	s		0.00%	s	3.3399	10000	s 33.399.00	s	- 0.00%
RTSR - Line and								1.							1.							Ĭ.	- 0.00%
Transformation Connection	per kW	\$ 2.464	10000	\$ 24,642.00	\$ 2.4642	10000 \$	24,642.00	\$	-	0.00%	\$	2.4642	10000 \$	24,642.00	\$		0.00%	\$	2.4642	10000	\$ 24,642.00	\$	- 0.00%
Sub-Total C - Delivery				\$ 110,956,42		8	131,298,22	s	20.341.80	18.33%			8	125,661,65	.s	5,636,57	-4.29%				\$ 135,798,26	\$ 10.13	.61 8.07%
(including Sub-Total B) Wholesale Market Service	per kWh	s 0.003		,	\$ 0.0034	-	,	_	,			0.0034	-	,	-	-,			0.0034		,	*,	
Charge (WMSC)	per kvvn	\$ 0.003	4024800	\$ 13,684.32	\$ 0.0034	4020400 \$	13,669.36	-\$	14.96	-0.11%	2	0.0034	4020400 \$	13,669.36	\$	-	0.00%	\$	0.0034	4020400	\$ 13,669.36	\$	- 0.00%
Rural and Remote Rate	per kWh	s 0.000			s 0.0005						s	0.0005						s	0.0005				
Protection (RRRP)	,		4024800	\$ 2,012.40		4020400 \$	2,010.20	-\$	2.20	-0.11%	-	0.000	4020400 \$	2,010.20	\$	-	0.00%	-	0.000	4020400	\$ 2,010.20	\$	- 0.00%
Standard Supply Service Charge		\$ 0.250	1	\$ 0.25	\$ 0.6200	1 \$		\$	0.37	148.00%		0.6400	1 \$	0.64	\$	0.02	3.23%		0.6600	1	\$ 0.66	\$.02 3.13%
Average IESO Wholesale Market	Price	\$ 0.110	4024800	\$ 443,130.48	\$ 0.1101	4020400 \$	442,646.04	-\$	484.44	-0.11%	\$	0.1101	4020400 \$	442,646.04	\$		0.00%	\$	0.1101	4020400	\$ 442,646.04	\$	- 0.00%
			1												1								
															1							1	
								_							_								
Total Bill on TOU (before Taxes	:)			\$ 569,783.87	400	\$	589,624.44	\$	19,840.57	3.48%		****	\$	583,987.89	-\$	5,636.55	-0.96%		4000		\$ 594,124.52	\$ 10,13	.63 1.74%
Total Bill (including HST)		13	١ ا	\$ 74,071.90 \$ 643.855.77	13%	\$	76,651.18 666,275.62	8	2,579.27 22.419.84	3.48%		13%	5	75,918.43 659.906.32		732.75 6.369.30	-0.96% -0.96%	- 1	13%		\$ 77,236.19 \$ 671,360.71	\$ 1,31 \$ 11,45	
Provincial Rehate		1	1	φ 043,800.77	1	3	000,275.62	ě	22,419.84	3.48%			5	009,900.32		0,309.30	-0.90%	- 1			o 0/1,300./1	0 11,45	1.74%
Total Bill on TOU (incl Prov. Re	shate)			\$ 643.855.77	1		666,275,62	e	22,419,84	3.48%				659.906.32	æ	6.369.30	-0.96%				s 671.360.71	\$ 11.45	.39 1.74%
						,							3		1-9								
Total Bill on RPP (before Taxes	1)		.1	\$ 126,653.39		\$	146,978.40	\$	20,325.01	16.05%			\$	141,341.85	.\$	5,636.55	-3.83%				\$ 151,478.48	\$ 10,13	
HST Total Bill (including HST)		13	6	\$ 16,464.94 \$ 143.118.33	13%	\$	19,107.19 166.085.59	\$	2,642.25 22.967.26	16.05% 16.05%		13%	s	18,374.44 159,716,29	-\$ -\$	732.75 6.369.30	-3.83% -3.83%	- 1	13%		\$ 19,692.20 \$ 171.170.68	\$ 1,31 \$ 11.45	
Provincial Rehate		1	1	φ 143,118.33	1	3	100,065.59	i e	22,907.20	10.05%			5	109,710.29	*	0,309.30	-3.8376	- 1			o 1/1,1/U.08	\$ 11,45	7.1/%
Total Bill on RPP (incl Prov. Re	h - r - 1			\$ 143.118.33		3	166,085,59		22.967.26	16.05%			5	159.716.29		6.369.30	-3.83%				\$ 171,170,68	\$ 11.45	.39 7.17%
TOTAL BILL ON KPP LINCI Prov. Re	(Date)			¥ 143,116.33		,	100,000.59	•	22,501.26	10.00%			3	105,710.29	~9	0,305.30	*3.03 %				¥ 171,170.68	¥ 11,45	7.17%
											=							=					
Loss Factor (%)		0.6200	6		0.5100%	J						0.5100%							0.5100%				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the Unarge § columns provide preakdowns or the amounts that each oill component contributes to the total monthly oill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS-50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS+50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS+50kW (kWh) - 00, 100, 500, 10000 Large Lber - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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TOU / non-TOU: TOU

Consumption 4,000,000 kWh May 1 - October 31 10,000 KW

				ent Board-Ap					2024 Prop				Impact 202	4 vs 2023	[2025 Propo				Impact 2025	vs 2024
	Charge Unit		Rate (\$)	Volume		Charge (\$)	l F	Rate (\$)	Volume		Charge (\$)	Г	\$ Change	% Change	ſ	Rati (\$)		Volume		Charge (\$)		Change	% Change
Monthly Service Charge	Monthly	s	15.231.32	- 1	2	15.231.32	l 1	\$ 15,905,06	- 1	s	15.905.06			0.00%	ŀ	\$ 15.90		- 1	s	15.905.06	s	Change	0.00%
Smart Meter Rate Adder		1		1	š				1	š		Š	-	5.55		,		1	š		š	-	
Rate Rider Calculation for Gain a		\$	-	10000	\$	-		\$ -	10000			\$				\$		10000	\$	-	\$	-	
Rate Rider Calculation for PILs		\$	-	10000	\$			\$ -	10000			\$				\$		10000	\$		\$		
Rate Rider Calculation for Gener	r) per kW	\$	-	10000	\$	-		\$.	10000	\$		5	-			\$	-	10000	\$	-	s	-	
Distribution Volumetric Rate	per kW	2	4.2422	10.000	\$	42.422.00		s 6.4494	10.000		64.494.00	1 8	2.942.00	4 78%		s 6	6396	10.000	8	66.396.00	s	1.902.00	2.95%
Smart Meter Disposition Rider	pui nee		4.2422	4000000	Š	42,422.00		0.4454	4000000		04,404.00	Š		4.7070			0000	4000000	s	00,000.00	s	1,502.00	2.5070
LRAM Rate Rider	per kW	s		10.000	š			s .	10.000			Š				s		10.000	s		s		
		1		4000000	\$				4000000			s						4000000	s	-	s		
				4000000	\$	-			4000000			\$						4000000	\$	-	\$	-	
				4000000 4000000	\$	-			4000000			\$						4000000 4000000	s	-	s	-	
Deferral/Variance Account	per kW		0.1830	4000000	\$	-			4000000	\$		\$						4000000	5	-	\$		
Disposition Rate Rider Class 2	per KW	3	0.1830	10000	2	1.830.00			10000	s						s		10000	e		s		
Disposition ratio roder Galas 2				10000		1,000.00			10000	1	-	- 1 -					-	10000	-	-		-	
				4000000	\$				4000000	s		s						4000000	\$	-	\$	-	
				4000000	\$				4000000	\$		\$						4000000	s	-	\$		
Sub-Total A (excluding pass the		I.			\$	59,483.32				\$	80,399.06	\$	2,942.00	3.80%	- [_			\$	82,301.06	\$	1,902.00	2.37%
Deferral/Variance Account Disposition Rate Rider Class 1	per kW	-\$	0.0863	10.000	-s	863.00		\$.	10.000	s		١.		1		\$		10.000	s		s		
Disposition Rate Rider Class 1				10,000	-5	863.00			10,000	>		۶						10,000	2		3		
Deferral/Variance Account	per kWh	·s	0.0015																				
Disposition Rate Rider -		1		4000000	-\$	6,000.00		\$ -	4000000	\$		\$				\$		4000000	s	-	\$		
Global Adjustment																							
Deferral / Variance Accounts	per kW	\$	-		١.					١.		١.							١.		١.		
Balances (excluding Global Adi.) - NON-WMP				10000	\$	-		\$ -	10000	\$		\$	-			\$		10000	2	-	\$	-	
Low Voltage Service Charge	per kW	e	0.02951	10.000	s	295.10		s 0.03030	10.000	s	303.00		2.80	0.93%		s 0.0	3072	10.000	e	307.20	s	4.20	1.39%
Line Losses on Cost of Power	pui nee		0.02501	24.800	Š	230.10		0.00000	20,400		300.00	Š		0.5570		. 0.0	3100	20,400	s	507.20	s	4.20	1.0070
Smart Meter Entity Charge	Monthly	\$	-	1	Š			\$.	1	š		Š	-			\$		1	Š	-	š	-	
Sub-Total B - Distribution					s	52,915,42				s	80.702.06		2.944.80	3,79%	ı				•	82,608,26	s	1,906,20	2.36%
(includes Sub-Total A)		١.					L					. Ľ			Į.						1.	,	
RTSR - Network RTSR - Line and	per kW	\$	3.3399	10000	\$	33,399.00		\$ 3.3399	10000	\$	33,399.00	\$	-	0.00%		\$ 3.	3399	10000	5	33,399.00	\$	-	0.00%
Transformation Connection	per kW	\$	2.4642	10000	\$	24,642.00		\$ 2.4642	10000	\$	24,642.00	\$		0.00%		\$ 2	4642	10000	s	24,642.00	\$		0.00%
Sub-Total C - Delivery		1					l 1					٠.			ŀ								
(including Sub-Total B)					\$	110,956.42				\$	138,743.06	\$	2,944.80	2.17%					5	140,649.26	\$	1,906.20	1.37%
Wholesale Market Service	per kWh	\$	0.0034	4024800	2	13 684 32	1	\$ 0.0034	4020400	s	13.669.36	9		0.00%	ſ	\$ 0.	0034	4020400	s	13.669.36	s		0.00%
Charge (WMSC)		١.		4024000	•	10,004.02			4020400	1	10,000.00	"	-	0.0070		s 0		4020400	•	10,000.00	1	-	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$	0.0005	4024800	\$	2,012.40		\$ 0.0005	4020400	s	2,010.20	s		0.00%		\$ 0.	0005	4020400	\$	2,010.20	\$	-	0.00%
Standard Supply Service Charge	Monthly	2	0.2500	- 1	s	0.25	١.	\$ 0.6800	- 1	e	0.68		0.02	3.03%			7000	- 1	e	0.70	s	0.02	2.94%
Average IESO Wholesale Market		š	0.1101	4024800	š	443.130.48		\$ 0.1101	4020400	š	442.646.04	š		0.00%			1101	4020400	š	442.646.04	š	0.02	0.00%
		1								1		- 1 -							1		1.		
		_										_			L	_					_		
Total Bill on TOU (before Taxe	s)				\$	569,783.87	. г			\$	597,069.34	\$	2,944.82	0.50%	Г				\$	598,975.56	\$	1,906.22	0.32%
HST			13%		\$	74,071.90		139	•	\$	77,619.01	\$	382.83	0.50%			13%		\$	77,866.82	\$	247.81	0.32%
Total Bill (including HST) Provincial Rebate					\$	643,855.77				\$	674,688.35	\$	3,327.65	0.50%					\$	676,842.38	\$	2,154.03	0.32%
					\$	_				\$		5							5	-	5	-	
Total Bill on TOU (incl Prov. R	ebate)	_			\$	643,855.77				\$	674,688.35		3,327.65	0.50%	L				\$	676,842.38	\$	2,154.03	0.32%
Total Bill on RPP (before Taxe	s)				\$	126,653.39				\$	154,423.30	\$	2,944.82	1.94%	Г				\$	156,329.52	\$	1,906.22	1.23%
HST		1	13%		\$	16,464.94		139	1	\$	20,075.03	\$		1.94%			13%		s	20,322.84	s	247.81	1.23%
Total Bill (including HST) Provincial Rebate		1			\$	143,118.33				\$	174,498.33	\$	3,327.65	1.94%					5	176,652.36	s	2,154.03	1.23%
					\$					\$	174,498,33	L 8	3.327.65	4.000	I.				5	176.652.36	\$		4 00**
Total Bill on RPP (incl Prov. R	ebate)				٥	143,118.33				,	1/4,498.33	Ş	3,327.65	1.94%	- 1				٥	1/6,652.35	\$	2,154.03	1.23%
Loss Factor (%)			0.6200%					0.51009	<u>i</u>						Į	0.5	100%						

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

note that the Charge & columns provide preakdowns or the amounts that each bill component columns consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, the to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS+50kW (kWh) - 1000, 2000, 5000, 15000 GS+50kW (kWh) - 1000, 2000, 5000, 15000 GS+50kW (kWh) - 60, 100, 500, 1000 Large Liber - range appropriate for utility Lighting Glasses and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rate

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Customer Class: Unmetered Scattered Load

TOU / non-TOU: TOU

	Consumption	470		May 1 - October	31	O Nov	ember 1 - April 30	Select this radio bu	ton for a	pplications file	ed after Oct 31)														
		Curre	KW nt Board-Appro	oved		2	021 Proposed		In	npact 2021	vs 2020		202	22 Propose	d	In	npact 2022	vs 2021		20	23 Proposed	1	Im	nact 2023	3 vs 2022
		Rate	Volume	Charge		Rate	Volume	Charge		iipuot 202	15 2020		Rate	Volume	Charge		ipuot zozz	10 2021		Rate	Volume	Charge		puot 2020	752522
	Charge Unit	(\$)		(\$)		(\$)		(\$)	\$ 0	Change	% Change		(\$)		(\$)	\$ C	hange	% Change		(\$)		(\$)	\$ C	nange	% Change
Monthly Service Charge	Monthly	\$ 5.09	1 \$	5.09		5.60	1 \$	5.60	\$	0.51	10.02%		6.13	1	\$ 6.13	\$	0.53	9.46%		6.63	1 5	6.63	\$	0.50	8.16%
Smart Meter Rate Adder			1 \$	-			1 \$	-	\$	-					S -	\$	-				1 5	- 8	\$	-	
Rate Rider Calculation for Gain and		\$ -	470 \$	-	\$	-	470 \$		\$	-		\$	-		\$ -	\$	-		S	-	470 \$	-	\$	-	
Rate Rider Calculation for PILs	per kW	\$ -	470 \$		\$	-	470 \$		\$	-		\$	-		\$ -	\$	-		S	-		- 6	\$	-	
Rate Rider Calculation for Generic	per kW	\$ -	470 \$	-	\$	-	470 \$	-	\$	-		\$	-		\$ -	\$	-		S	-	470	- 6	\$	-	
			1 \$	-			1 \$	-	\$	-					\$ -	\$	-				1 5	- 8	\$	-	
Distribution Volumetric Rate	per kWh	\$ 0.0242	470 \$	11.37	\$	0.0263	470 \$		\$	0.99	8.68%	\$	0.0288		\$ 13.54	\$	1.18	9.51%	\$	0.0311	470		\$	1.08	7.99%
Smart Meter Disposition Rider			470 \$	-			470 \$		\$	-					\$ -	\$	-				470		\$	-	
LRAM Rate Rider	per kWh	\$ -	470 \$	-	-\$	0.0002	470 -\$		-\$	0.09		-\$	0.0002	470		\$	-	0.00%				-	\$	0.09	-100.00%
			470 \$	-			470 \$		\$	-					\$ -	\$	-					-	\$	-	
			470 \$				470 \$		\$	-					\$ -	\$	-				470		\$	-	
			470 \$	-			470 \$		\$	-					\$ -	\$	-				470		\$	-	
			470 \$	-			470 \$	-	\$	-				470	\$ -	\$	-				470	-	\$	-	
Deferral/Variance Account	per kWh	\$ 0.0013							1.																
Disposition Rate Rider Class 2			470 \$	0.61	-\$	0.00040	470 -\$	0.19	-\$	0.80	-130.77%	-\$	0.0004	470	\$ 0.19	\$	-	0.00%	\$	-	470	-	\$	0.19	-100.00%
									1.																
			470 \$	-			470 \$	-	\$	-				470	\$ -	\$	-				470 \$	-	\$	-	
			470 \$		_		470 \$		\$	- :				470	\$ -	\$					470 \$	-	\$		
Sub-Total A (excluding pass three		-\$ 0.0002	5	17.08	-			17.68	\$	0.60	3.54%				\$ 19.38	\$	1.71	9.64%				21.25	\$	1.86	9.61%
Deferral/Variance Account	per kWh	-\$ 0.0002	470 0	0.00	-S	0.0000	470 6	0.00	_	0.40	000 000		0.0000	470		_		0.000/	9		470	.	•	0.00	400.000
Disposition Rate Rider Class 1			470 -\$	0.09	-5	0.0006	470 -\$	0.28	-\$	0.19	200.00%	-\$	0.0006	470	\$ 0.28	>	-	0.00%	5	-	470 \$	-	3	0.28	-100.00%
Deferral/Variance Account	per kWh																								
	per kvvn	5 -	470 0				470 6		_					470		_					470	.			
Disposition Rate Rider - Global			470 \$	-	2	-	470 \$	-	\$	-		\$	-	470	\$ -	>	-		5	-	470	-	3	-	
Adjustment		٠.																							
Deferral / Variance Accounts Balances (excluding Global Adj.) -	per kWh	5 -	470 S	_			470 \$	_	s	_		s		470	s -	s	_		s		470 5		s		
NON-WMP			4/0 \$	-	3	-	4/0 \$		9	-		3	-	4/0	3 -	9	-		3	-	470 3	-	3	-	
Low Voltage Service Charge	per kWh	\$ 0.00006	486 S	0.03		0.00006	486 \$	0.03	s	_	0.00%	s	0.00006	486	\$ 0.03		_	0.00%	s	0.00006	486	0.03		_	0.00%
Line Losses on Cost of Power	per kvvii	\$ 0.00006	16 \$		S	0.1276	16 5		\$	0.02	0.90%	S	0.00006		\$ 2.03	s		0.00%	S	0.1276	16		9	-	0.00%
Smart Meter Entity Charge	Monthly	0.1270	1 5	2.01	3	0.1276	1 5		9	0.02	0.90%	9	0.12/0		\$ 2.03 S -	9	-	0.00%	S	0.12/0	10	2.03	3	-	0.00%
Sub-Total B - Distribution	MOHIN	3 -	1 3		3	-	1 3	-	a a	-		9			s -	a a	-		3		- 1	-	3		
(includes Sub-Total A)			\$	19.02			\$	19.45	\$	0.43	2.28%				\$ 21.16	\$	1.71	8.76%				23.30	\$	2.15	10.14%
RTSR - Network	per kWh	\$ 0.0071	486 S	3.45	9	0.0071	486 5	3.45	\$		0.00%	S	0.0071	486	S 3.45	9		0.00%	S	0.0071	486	3.45	9		0.00%
RTSR - Line and Transformation	per kWh								1			-				1			-				1		
Connection	pui kviii	\$ 0.0050	486 \$	2.43	\$	0.0050	486	2.43	\$	-	0.00%	\$	0.0050	486	\$ 2.43	\$	-	0.00%	\$	0.0050	486	2.43	\$	-	0.00%
Sub-Total C - Delivery									_														_		
(including Sub-Total B)			\$	24.90			\$	25.33	\$	0.43	1.74%				\$ 27.04	\$	1.71	6.73%				29.18	\$	2.15	7.93%
Wholesale Market Service	per kWh	\$ 0.0034			S	0.0034			1			S	0.0034						S	0.0034			- t-		
Charge (WMSC)	,		486 \$	1.65			486 \$	1.65	\$	-	0.00%	-		486	\$ 1.65	\$	-	0.00%	-		486	1.65	\$	-	0.00%
Rural and Remote Rate	per kWh	\$ 0.0005			s	0.0005			1.			s	0.0005						s	0.0005					
Protection (RRRP)	,		486 \$	0.24			486	0.24	\$	-	0.00%	_		486	\$ 0.24	\$	-	0.00%	-		486	0.24	\$	-	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1 S	0.25	s	0.6200	1 \$	0.62	\$	0.37	148.00%	\$	0.6400	1	\$ 0.64	\$	0.02	3.23%	s	0.6600	1 5	0.66	\$	0.02	3.13%
TOU - Off Peak	,	\$ 0.1010	306 \$	30.86	Š	0.1010	306 \$		\$	-	0.00%	\$	0.1010	306	\$ 30.86	\$		0.00%	s	0.1010	306	30.86	\$	- '	0.00%
TOU - Mid Peak		\$ 0.1440	80 \$		s	0.1440	80 \$		\$	-	0.00%	\$	0.1440		\$ 11.51	\$	-	0.00%	s	0.1440		11.51	\$	-	0.00%
TOU - On Peak		\$ 0.2080	85 \$	17.60	s	0.2080	85 \$	17.60	\$	-	0.00%	\$	0.2080	85	\$ 17.60	\$	-	0.00%	s	0.2080	85 5	17.60	\$	-	0.00%
Energy - RPP - Tier 1		\$ 0.1190	470 \$	55.93	s	0.1190	470 \$	55.93	\$	-	0.00%	\$	0.1190	470	\$ 55.93	\$	-	0.00%	s	0.1190	470 5	55.93	\$	-	0.00%
Energy - RPP - Tier 2		\$ 0.1390	0 \$	-	S	0.1390	0 \$	-	\$	-		\$	0.1390	0	\$ -	\$	-		S	0.1390	0 5	- 6	\$	-	
		1							Τ.							٠.							٠.		
Total Bill on TOU (before Taxes)			\$	87.00			\$	87.80	\$	0.80	0.92%				\$ 89.53	\$	1.72	1.96%				91.69	\$	2.16	2.42%
HST Total Bill (including HST)		139	S S	11.31 98.31		13%	\$		\$	0.10 0.91	0.92% 0.92%	- 1	13%		\$ 11.64 \$ 101.17	\$	0.22 1.95	1.96% 1.96%		13%	3		\$	0.28 2.45	2.42%
Provincial Rebate		04.00					3		3							3					3		3		
		31.89	\$	27.67		31.8%	\$	27.92	\$	0.26	0.92%		31.8%		\$ 28.47	\$	0.55	1.96%		31.8%		29.16	\$	0.69	2.42%
Total Bill on TOU (incl Prov. Reb	ate)		\$	70.64			\$	71.30	\$	0.65	0.92%				\$ 72.70	\$	1.40	1.96%				74.45	\$	1.76	2.42%
Total Bill on RPP (before Taxes)		T	s	82.97			5	83.77	s	0.80	0.97%				\$ 85.50	s	1.73	2.06%				87.66	s	2.16	2.53%
HST (Delore Taxes)		139		10.79		13%	5		s	0.10	0.97%		13%		\$ 11.11	s	0.22	2.06%		13%			s	0.28	2.53%
Total Bill (including HST)		137	s	93.76		.570	Š		Š	0.10	0.97%		1070		\$ 96.61	s	1.95	2.06%		.570	3		s	2.45	2.53%
Provincial Rebate		31.89		26.38		31.8%		26.64	s	0.26	0.97%		31.8%		\$ 27.19	S	0.55	2.06%		31.8%		27.88	s	0.69	2.53%
Total Bill on RPP (incl Prov. Reb	ato)	21.07		67.37		31.370		68.03	5	0.65	0.97%		01.070		\$ 69.43	•	1.40	2.06%		51.570		71.18	\$	1.76	2.53%
Total Bill of RPP (Inci Prov. Reb	atej		3	37.37			,	00.03	4	0.03	0.91%				9 69.43	-	1.40	2.06%				, ,1.10	-	1./6	2.55%
Loss Factor (%)		3.35009	5			3.3800%							3.3800%							3.3800%	l				

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "unarge s" columns provide preakdowns or the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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Customer Class: Unmetered Scattered Load

TOU / non-TOU: TOU

	Consumption		470	kWh (May 1 - Octob	eı																	
				KW t Board-Ap] [24 Propos			[lm	pact 2024	vs 2023			ropos			In	npact 202	5 vs 2024
			Rate	Volume	Charge	T [Rate	Volume		Charge		4.0			Rate	Vo	lume	С	harge			
Monthly Service Charge	Charge Unit Monthly	\$	(\$) 5.09	- 1	(\$) \$ 5.09	+		7.04	- 1	\$	(\$) 7.04	ŀ	\$	hange 0.41	% Change 6.18%	(\$)	o.	- 1	\$	7.39	S	0.35	% Change 4.97%
Smart Meter Rate Adder	monuny	_	0.00	1	S -			7.04	i i	s			\$		0.1070			1	\$	-	s	-	4.57 70
Rate Rider Calculation for Gain and	d per kW	\$	-	470	s -		\$	-	470	Š	-		\$	-		s -		470	\$	-	s	-	
Rate Rider Calculation for PILs	per kW	\$	-	470	s -		\$	-	470	\$	-		\$	-		\$ -		470	\$	-	\$	-	
Rate Rider Calculation for Generic	per kW	\$	-	470	S -		\$	-	470	\$	-		\$	-		\$ -		470	\$	-	\$	-	
				1	s -				1	\$	-		\$	-				1	\$	-	\$	-	
Distribution Volumetric Rate	per kWh	\$	0.0242	470	\$ 11.37		\$	0.0330			15.51		\$	0.89	6.11%	\$ 0.034	7	470	\$	16.31	\$	0.80	5.15%
Smart Meter Disposition Rider				470	\$ -				470	\$	-		\$	-				470	\$	-	\$	-	
LRAM Rate Rider	per kWh	\$	-	470 470	s - s -				470 470	S S			\$ \$	-				470 470	\$ \$	-	s s	-	
					s -				470	S			\$	- 1				470	S	-	s	-	
				470					470	\$			\$	- 1				470	\$		\$		
				470						s	_		s					470	s	_	s	-	
Deferral/Variance Account	per kWh	\$	0.0013		-																1		
Disposition Rate Rider Class 2	-			470	\$ 0.61		\$	-	470	\$	-		\$	-		\$ -		470	\$	-	\$	-	
				470					470	\$	-		\$	-				470	\$	-	\$	-	
				470					470	\$	-		\$	-				470	\$	-	\$	-	
Sub-Total A (excluding pass three		-S	0.0000		\$ 17.08	4				\$	22.55	-	\$	1.30	6.13%		_		\$	23.70	\$	1.15	5.10%
Deferral/Variance Account	per kWh	-\$	0.0002	470	-S 0.09		s		470				s	_		s -		470	s		s	_	
Disposition Rate Rider Class 1				4/0	-\$ 0.09		\$	-	4/0	3	-		3	-		\$ -		4/0	2	-	3	-	
Deferral/Variance Account	per kWh	s																					
Disposition Rate Rider - Global	p	_		470	s -		s	_	470	s	_		s	-		s -		470	s	-	s	_	
Adjustment																					1		
Deferral / Variance Accounts	per kWh	\$	-																				
Balances (excluding Global Adj.) -				470	\$ -		\$	-	470	\$	-		\$	-		\$ -		470	\$	-	\$	-	
NON-WMP																							
Low Voltage Service Charge	per kWh	\$	0.00006	486	\$ 0.03		\$	0.00006	486	\$	0.03		\$	-	0.00%	\$ 0.0000		486	\$	0.03	\$	-	0.00%
Line Losses on Cost of Power		\$	0.1276		\$ 2.01		\$	0.1276	16	\$	2.03		\$	-	0.00%	\$ 0.127	6	16	\$	2.03	\$	-	0.00%
Smart Meter Entity Charge Sub-Total B - Distribution	Monthly	\$	-	1	\$ -	-	\$		1	\$	-	-	\$	-		\$ -	_	1	\$	-	\$		
(includes Sub-Total A)					\$ 19.02					\$	24.61		\$	1.30	5.59%				\$	25.75	\$	1.15	4.67%
RTSR - Network	per kWh	\$	0.0071	486	\$ 3.45	1 1	\$	0.0071	486	s	3.45	H	\$		0.00%	\$ 0.007	1	486	\$	3.45	\$		0.00%
RTSR - Line and Transformation	per kWh																						
Connection		\$	0.0050	486	\$ 2.43		\$	0.0050	486	\$	2.43		\$	-	0.00%	\$ 0.005	0	486	\$	2.43	\$	-	0.00%
Sub-Total C - Delivery					\$ 24.90	1 1				\$	30.48	Ī	s	1.30	4.47%				\$	31.63	s	1.15	3.77%
(including Sub-Total B)					\$ 24.90					•	30.40		2	1.30	4.4770				*	31.03	3	1.15	3.77%
Wholesale Market Service	per kWh	\$	0.0034	486	S 1.65		\$	0.0034	486	s	1.65		s	-	0.00%	\$ 0.003	4	486	s	1.65	s	_	0.00%
Charge (WMSC)							_										_				1		
Rural and Remote Rate Protection (RRRP)	per kWh	\$	0.0005	486	\$ 0.24		\$	0.0005	486	\$	0.24		\$	-	0.00%	\$ 0.000	15	486	\$	0.24	\$	-	0.00%
Standard Supply Service Charge	Monthly	\$	0.2500	- 1	\$ 0.25		s	0.6800	1	s	0.68		\$	0.02	3.03%	\$ 0.700	0	1	\$	0.70	s	0.02	2.94%
TOU - Off Peak	Monthly	\$	0.1010	306			S	0.1010		S	30.86		\$	0.02	0.00%	\$ 0.700		306	\$	30.86	s	0.02	0.00%
TOU - Mid Peak		s	0.1440	80			s	0.1440			11.51		s		0.00%	\$ 0.144		80		11.51	s	-	0.00%
TOU - On Peak		\$	0.2080	85			Š	0.2080			17.60		\$	-	0.00%	\$ 0.208		85	\$	17.60	s	-	0.00%
Energy - RPP - Tier 1		\$	0.1190	470			\$	0.1190	470	\$	55.93		\$	-	0.00%	\$ 0.119	0	470	\$	55.93	\$	-	0.00%
Energy - RPP - Tier 2		\$	0.1390	0	s -		\$	0.1390	0	\$	-		\$	-		\$ -		0	\$	-	\$	-	
Total Bill on TOU (before Taxes)					\$ 87.00					s	93.02		s	1.32	1,44%				s	94,18	s	1.17	1,26%
HST (Delore Taxes)			13%		\$ 11.31			13%		S	12.09		\$	0.17	1.44%	13	0.0		\$	12.24	\$	0.15	1.26%
Total Bill (including HST)			1370		\$ 98.31			1370		S	105.11		\$	1.49	1.44%	10	70		\$	106.43	\$	1.32	1.26%
Provincial Rebate			31.8%		S 27.67			31.8%		S	29.58		\$	0.42	1.44%	31.8	96		s	29.95	s	0.37	1.26%
Total Bill on TOU (incl Prov. Reb	ato)		2270		\$ 70.64			01.070		9	75.53		S	1.07	1,44%	31.0			\$	76.48	\$	0.95	1.26%
	atoj				70.04					Ľ			_								·		
Total Bill on RPP (before Taxes)		1 -	_		\$ 82.97					\$	88.99		\$	1.32	1.51%				\$	90.16	\$	1.17	1.31%
HST		1	13%		\$ 10.79			13%		\$	11.57		\$	0.17	1.51%	13	96		\$	11.72	\$	0.15	1.31%
Total Bill (including HST)		1	04.65	l	\$ 93.76				l	\$	100.56		\$	1.49	1.51%				\$	101.88	\$	1.32	1.31%
Provincial Rebate			31.8%		\$ 26.38			31.8%		\$	28.30	_	\$	0.42	1.51%	31.8	96		\$	28.67	\$	0.37	1.31%
Total Bill on RPP (incl Prov. Reb	ate)				\$ 67.37					\$	72.26		\$	1.07	1.51%				\$	73.21	\$	0.95	1.31%
						- '																	
Loss Factor (%)			3.3500%			ſ		3.3800%								3.3800	196						
																	-						

Note that the "Charge \$" columns provide preakdowns of the amounts that each bill component co-consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In adu to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjuste

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier Rf

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¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Customer Class: Sentinel Lights

TOU / non-TOU: TOU

	Consumption			kWh ®	May 1 - Octob	er 31	O Now	ember 1 - April 30 (S	ielect this radio b	utton for	applications file	d after Oct 31)														
				t Board-Ap	proved	1 [2	021 Proposed			mpact 2021	vs 2020		202	22 Propos	ed	п г	Impact 202	2 vs 2021		20	23 Proposed		lr	npact 2023	3 vs 2022
	Ob 11-14		ate	Volume	Charge	1 [Rate	Volume	Charge	_	01	0/ Oh		Rate	Volume	Charge			n/ Ob		Rate	Volume	Charge		01	0/ Oh
Monthly Service Charge	Charge Unit Monthly	S	3.17	- 1	(\$) \$ 3.17	┨ ┣	(\$) 3.91	1 S	(\$) 3.91	٠	Change 0.74	% Change 23.34%	-	(\$) 4.64	- 1	(\$) \$ 4.6	4 4	\$ Change \$ 0.73	% Change 18.67%	-	(\$)	1 \$	5.35		Change 0.71	% Change 15.30%
Smart Meter Rate Adder	Monthly	•	3.17		\$ -		5.51	1 \$	3.81	Š	- 0.74	23.3470		4.04	i	\$ -	" i	\$ 0.75	10.07 /6		3.33	1 \$	- 3.33	s	- 0.71	15.50 %
Rate Rider Calculation for Gain an	dper kW	\$	-	0.4	\$ -	5	š -	0.4 \$	-	\$	-		\$	-	0.4	\$ -		\$ -		\$		0.4 \$	-	\$	-	
Rate Rider Calculation for PILs	per kW	\$	-		\$ -	5	- 8	0.4 \$	-	\$	-		\$	-	0.4	\$ -		\$ -		\$	-	0.4 \$	-	\$	-	
Rate Rider Calculation for Generic	per kW	\$	-	0.4	\$ -	5	5 -	0.4 \$	-	\$	-		\$	-	0.4	\$ -				\$		0.4 \$	-	\$	-	
					\$ -	l I.		1 \$		\$					1	\$ -	. 1					1 \$	-	\$	-	
Distribution Volumetric Rate	per kW	\$ 1	14.8502		\$ 5.94	3	18.3405	0 \$ 94 \$	7.34	\$	1.40	23.50%	\$	21.7549	0	\$ 8.7			18.62%	\$	25.0873	0 \$	10.03	\$	1.33	15.32%
Smart Meter Disposition Rider LRAM Rate Rider	per kW			0	\$ - \$ -			94 S	-	\$	- 1				94	\$ - \$ -						94 \$	-	\$	-	
LRAW Rate Rider	per Kvv			-	s -	1	-	94 \$	-	Š	- 1		٠	-	94	s -	1					94 \$	- 1	Š		
				94	s -			94 \$	-	s	- 1				94							94 \$		s		
					š -			94 \$	-	Š	-				94							94 \$	-	\$	-	
				94	\$ -			94 \$	-	\$	-				94	\$ -		\$ -				94 \$	-	\$	-	
Deferral/Variance Account	per kW	\$	1.0461																							
Disposition Rate Rider Class 2				0.40	\$ 0.42	-5	0.0016	0.40 -\$	0.00	-\$	0.42	-100.15%	-\$	0.0016	0.40	-\$ 0.0	0 1	\$ -	0.00%	\$	-	0.40 \$	-	\$	0.00	-100.00%
					•			0.4				J					11.					04.5				
				94 94	-	1 [94 \$ 94 \$	-	\$	-				94 94	ş -			1			94 \$ 94 \$	-	\$	-	
Sub-Total A (excluding pass the	rough)			94	\$ 9.53	+ +		94 \$	11.25	9	1.72	18.02%			94	\$ 13.3	4 9	\$ 2.10	18.64%	-		94 \$	15.38	\$	2.04	15.32%
Deferral/Variance Account	per kW	-S	0.0563		9 3.55	1 1			11.23		1.72	10.02 /6				9 13.3	7 1	2.10	10.0476			- 1	13.30		2.04	13.32 /6
Disposition Rate Rider Class 1				0.40	-\$ 0.02	-5	0.2023	0.40 -\$	0.08	-\$	0.06	259.33%	-\$	0.2023	0	-\$ 0.0	8 3	s -	0.00%	\$	-	0 \$	-	\$	0.08	-100.00%
Deferral/Variance Account	per kWh	\$	-													_	11.									
Disposition Rate Rider - Global				94	\$ -	3	5 -	94 \$	-	\$	-		\$	-	94	\$ -		\$ -		\$	-	94 \$	-	\$	-	
Adjustment Deferral / Variance Accounts	per kW	e	_																							
Balances (excluding Global Adj.) -	poi kvv	•	_	0.40	s -	5		0.40 \$	_	s	_		\$	_	0.40	s -		s -		\$		0.40 S	_	\$	_	
NON-WMP				0.40	•	1 1	_	0.40		ľ					0.40	•		•		,		0.40		ľ		
Low Voltage Service Charge	per kW	\$ 0	0.01860	0	\$ 0.01	5	0.01846	0 \$	0.01	-\$	0.00	-0.75%	\$	0.01870	0	\$ 0.0	1 3	\$ 0.00	1.30%	\$	0.01892	0 \$	0.01	\$	0.00	1.18%
Line Losses on Cost of Power		\$	0.1276	3	\$ 0.40	5	0.1276	3 \$	0.41	\$	0.00	0.90%	\$	0.1276	3	\$ 0.4	1 3	\$ -	0.00%	\$	0.1276	3 \$	0.41	\$	-	0.00%
Smart Meter Entity Charge	Monthly	\$	-	1	\$ -	\$	-	1 \$	-	\$	-		\$	-	1	\$ -	:	\$ -		\$		1 \$	-	\$	-	
Sub-Total B - Distribution					\$ 9.92			\$	11.58	\$	1.66	16.76%				\$ 13.6	7 :	\$ 2.10	18.10%			\$	15.80	\$	2.12	15.54%
(includes Sub-Total A) RTSR - Network	per kW	S	2.1420	0.4	\$ 0.86	5	2.1420	0.4 S	0.86	e	-	0.00%	•	2.1420	0.4	\$ 0.8	6 5	s -	0.00%	5	2.1420	0.4 S	0.86	S	-	0.00%
RTSR - Line and Transformation	•									9			Ψ							1				9	-	
Connection	per kW	\$	1.5211	0.4	\$ 0.61	5	1.5210	0.4 \$	0.61	-\$	0.00	-0.01%	\$	1.5210	0.4	\$ 0.6	1 1	\$ -	0.00%	\$	1.5210	0.4 \$	0.61	\$	-	0.00%
Sub-Total C - Delivery					s 11.38	1		•	13.04	5	1.66	14.61%				S 15.1	4 9	\$ 2.10	16.07%			6	17.26		2.12	14.03%
(including Sub-Total B)					\$ 11.30	4 4		۶	13.04	*	1.00	14.0176				3 15.1	• L	\$ 2.10	16.07 %			,	17.20	*	2.12	14.03%
Wholesale Market Service	per kWh	\$	0.0034	97	\$ 0.33	5	0.0034	97 S	0.33	s	-	0.00%	\$	0.0034	97	\$ 0.3	3 1	s -	0.00%	\$	0.0034	97 S	0.33	s	-	0.00%
Charge (WMSC) Rural and Remote Rate	per kWh	s	0.0005			5	0.0005			1				0.0005						9	0.0005			1		
Protection (RRRP)	bet KAAII	٥	0.0005	97	\$ 0.05	3	0.0005	97 \$	0.05	\$	-	0.00%	\$	0.0005	97	\$ 0.0	5 5	\$ -	0.00%	3	0.0005	97 \$	0.05	\$	-	0.00%
Standard Supply Service Charge	Monthly	s	0.2500	1	\$ 0.25	5	0.6200	1 S	0.62	s	0.37	148.00%	\$	0.6400	1	\$ 0.6	4 5	\$ 0.02	3.23%	9	0.6600	1 S	0.66	s	0.02	3.13%
TOU - Off Peak	,		0.1010		\$ 6.17	1		61 \$		\$	-	0.00%	\$	0.1010	61				0.00%	S		61 \$	6.17	\$	-	0.00%
TOU - Mid Peak		\$	0.1440	16	\$ 2.30	5	0.1440	16 \$	2.30	\$	-	0.00%	\$	0.1440	16	\$ 2.3	0 3	\$ -	0.00%	\$	0.1440	16 \$	2.30	\$	-	0.00%
TOU - On Peak			0.2080		\$ 3.52	5		17 \$	3.52	\$	-	0.00%	\$	0.2080	17				0.00%	\$		17 \$	3.52	\$	-	0.00%
Energy - RPP - Tier 1			0.1190		\$ 11.19			94 \$	11.19	\$	-	0.00%	\$	0.1190		\$ 11.1	9 \$	\$ -	0.00%	\$		94 \$	11.19	\$	-	0.00%
Energy - RPP - Tier 2		\$	0.1390	0	\$ -	5	0.1390	0 \$	-	\$	-		\$	0.1390	0	\$ -		\$ -		\$	0.1390	0 \$	-	\$	-	
Total Bill on TOU (before Taxes)				\$ 24.00			\$	26.03	\$	2.03	8.47%				\$ 28.1	5 5	\$ 2.12	8.13%			\$	30.29	\$	2.14	7.62%
HST			13%		\$ 3.12		13%	\$	3.38	\$	0.26	8.47%		13%		\$ 3.6			8.13%		13%	\$	3.94	\$	0.28	7.62%
Total Bill (including HST)					\$ 27.12			\$	29.42	\$	2.30	8.47%				\$ 31.8			8.13%			\$	34.23	\$	2.42	7.62%
Provincial Rebate			31.8%		\$ 7.63		31.8%	\$	8.28	\$	0.65	8.47%		31.8%		\$ 8.9		\$ 0.67	8.13%		31.8%	S	9.63	\$	0.68	7.62%
Total Bill on TOU (incl Prov. Re	bate)				\$ 19.49	Щ		\$	21.14	\$	1.65	8.47%				\$ 22.8	6 3	\$ 1.72	8.13%			\$	24.60	\$	1.74	7.62%
Total Bill on RPP (before Taxes)				\$ 23.20			\$	25.23	\$	2.03	8.76%				\$ 27.3		\$ 2.12	8.39%			\$	29.49	\$	2.14	7.84%
HST		1	13%		\$ 3.02	1 1	13%	s	3.28	\$	0.26	8.76%		13%		\$ 3.5		\$ 0.28	8.39%		13%	\$	3.83	\$	0.28	7.84%
Total Bill (including HST)			21 00/		\$ 26.21		04.604	\$	28.51	\$	2.30	8.76%		04.004		\$ 30.9			8.39%		04.007	\$	33.32	\$	2.42	7.84%
Provincial Rebate			31.8%		\$ 7.38		31.8%	\$	8.02	\$	0.65	8.76%		31.8%		\$ 8.7		\$ 0.67	8.39%		31.8%	\$	9.38	\$	0.68	7.84%
Total Bill on RPP (incl Prov. Rel	oate)				\$ 18.83			\$	20.48	\$	1.65	8.76%				\$ 22.2	0 9	\$ 1.72	8.39%			\$	23.94	\$	1.74	7.84%
													_							_						

3.3800%

3.3800%

Note that the .Charge \$ columns provide preakdowns or the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

3.3500%

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

3.3800%

Loss Factor (%)

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

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¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

Customer Class: Sentinel Lights

TOU / non-TOU: TOU

		_		t Board-Ap					24 Propose													
		F	Rate	Volume	Charge	1 [R	tate	Volume		harge		mpact 2024			Rate	25 Propos Volume		Charge		npact 202	
	Charge Unit		(\$)		(\$)		((\$)			(\$)		Change	% Change		(\$)			(\$)		Change	% Change
	Monthly	\$	3.17	1	\$ 3.17			6.01	1	\$	6.01	\$	0.66	12.34%		6.64	1	\$	6.64	\$	0.63	10.489
Smart Meter Rate Adder Rate Rider Calculation for Gain and	per kW	s		0.4	\$ - \$ -		s		0.4	\$		\$	-		s		0.4	\$	- 1	\$		
	per kW	s			s -		Š			\$	2	\$			s	- 1	0.4	\$	1	Š		
Rate Rider Calculation for Generic		\$	-		\$ -		\$	-		\$	-	\$	-		\$	-	0.4	Š	-	s	-	
				1	\$ -				1	\$	-	\$	-				1	\$	-	\$	-	
	per kW	\$	14.8502		\$ 5.94		\$ 2	28.2183		\$	11.29	\$	1.25	12.48%	\$	31.1964	0	\$	12.48	\$	1.19	10.559
Smart Meter Disposition Rider					s -					\$		\$	-				94	\$		\$	-	
LRAM Rate Rider	per kW				\$ - \$ -					\$	-	\$	-				0 94	\$	-	\$	-	
					s -					\$		s					94	\$		s		
					š -					Š	-	Š	-				94	Š	-	š	-	
				94	\$ -				94	\$	-	\$	-				94	\$	-	\$	-	
	per kW	\$	1.0461																			
Disposition Rate Rider Class 2				0.40	\$ 0.42		\$	-	0.40	\$	-	\$	-		\$	-	0.40	\$	-	\$	-	
					_					_												
				94 94	\$ - \$ -					\$	-	\$	-				94 94	\$	-	s s	-	
Sub-Total A (excluding pass thro	uah)			34	\$ 9.53	-			34	S	17.30	S	1.91	12.43%			34	S	19.12	S	1.82	10.539
	per kW	-S	0.0563		¥ 0.00	1 1				•	17.00	•	1.01	12.4070				Ť	10.12	Ť	1.02	10.00
Disposition Rate Rider Class 1				0.40	-\$ 0.02		\$	-	0	\$	-	\$	-		\$	-	0	\$	-	\$	-	
	per kWh	\$	-		_		_			_					_							
Disposition Rate Rider - Global Adjustment				94	\$ -		\$	-	94	\$	-	\$	-		\$	-	94	\$	-	\$	-	
	per kW	s	_																			
Balances (excluding Global Adj.) -	poi kvi	•		0.40	s -		s	_	0.40	s	-	s	-		s	-	0.40	s	-	s	-	
NON-WMP												1						1		1		
	per kW		0.01860		\$ 0.01			0.01910		\$	0.01	\$	0.00	0.95%	\$	0.01936	0	\$	0.01	\$	0.00	1.369
Line Losses on Cost of Power		\$	0.1276	3	\$ 0.40			0.1276	3	\$	0.41	\$	-	0.00%	\$	0.1276	3	\$	0.41	\$	-	0.009
Smart Meter Entity Charge Sub-Total B - Distribution	Monthly	\$	-	1	\$ -	-	\$	-	1	\$	-	\$	-		\$	-	1	\$		\$	-	
(includes Sub-Total A)					\$ 9.92					\$	17.71	\$	1.91	12.11%				\$	19.53	\$	1.82	10.289
	per kW	s	2.1420	0.4	\$ 0.86	i i	S	2.1420	0.4	s	0.86	s	-	0.00%	S	2.1420	0.4	s	0.86	s		0.009
DTCD Line and Transformation	per kW	s	1.5211		\$ 0.61			1.5210		s	0.61	s		0.00%	s	1.5210	0.4		0.61	s		0.009
Connection	per KVV	٥	1.5211	0.4	\$ 0.61		Þ	1.5210	0.4	4	0.61	3	-	0.00%	\$	1.5210	0.4	٥	0.61	3	-	0.00%
Sub-Total C - Delivery					s 11.38					\$	19.18	s	1.91	11.08%				\$	21.00	s	1.82	9.509
(including Sub-Total B) Wholesale Market Service	per kWh	s	0.0034		•	-	_	0.0034				_			S	0.0034				-		
Wholesale Market Service Charge (WMSC)	per kwn	\$	0.0034	97	\$ 0.33		\$	0.0034	97	\$	0.33	\$	-	0.00%	\$	0.0034	97	\$	0.33	\$	-	0.009
	per kWh	\$	0.0005				\$	0.0005							s	0.0005						
Protection (RRRP)		*		97	\$ 0.05				97	\$	0.05	\$	-	0.00%	-		97	\$	0.05	\$	-	0.009
Standard Supply Service Charge	Monthly	\$	0.2500	1	\$ 0.25		\$	0.6800		\$	0.68	\$	0.02	3.03%	\$	0.7000	1	\$	0.70	\$	0.02	2.949
TOU - Off Peak		\$	0.1010		\$ 6.17			0.1010			6.17	\$	-	0.00%	\$	0.1010	61		6.17	\$	-	0.009
TOU - Mid Peak		\$	0.1440		\$ 2.30			0.1440	16	\$	2.30	\$	-	0.00%	\$	0.1440	16	\$	2.30	\$	-	0.009
TOU - On Peak		\$	0.2080		\$ 3.52			0.2080			3.52 11.19	\$	-	0.00%	\$	0.2080 0.1190	17 94		3.52 11.19	\$	-	0.009
Energy - RPP - Tier 1 Energy - RPP - Tier 2		s	0.1190		\$ 11.19 \$ -			0.1190		S	11.19	\$	-	0.00%	\$	0.1190	94		11.19	\$ \$	-	0.00%
		Ÿ	0.1080	-			ý.	0.1380	Ů	9		ų.	_		φ			Ĵ				
Total Bill on TOU (before Taxes)					\$ 24.00					\$	32.23	\$	1.93	6.38%				\$	34.07	\$	1.84	5.719
HST			13%		\$ 3.12 \$ 27.12			13%		\$	4.19 36.42	\$	0.25 2.18	6.38%		13%		\$	4.43 38.50	\$	0.24 2.08	5.719
Total Bill (including HST) Provincial Rebate			31.8%		\$ 27.12 \$ 7.63			31.8%		S	10.25	\$	0.61	6.38%		31.8%		\$	10.83	\$	0.59	5.719 5.719
Total Bill on TOU (incl Prov. Reba	ata)		31.0%		\$ 7.63 \$ 19.49			31.8%		5	26.17	S	1.57	6.38%		31.6%		S	27.66	S	1.50	5.719
Total Bill on TOU (Incl Prov. Reba	atej				ə 19.49					3	26.17	2	1.5/	6.38%				à	27.00	3	1.50	5.71
Total Bill on RPP (before Taxes)					\$ 23.20	- Г				\$	31.42	\$	1.93	6.55%				\$	33.26	\$	1.84	5.869
HST			13%		\$ 3.02			13%		\$	4.08	\$	0.25	6.55%		13%		\$	4.32	\$	0.24	5.869
Total Bill (including HST)			04.007		\$ 26.21					\$	35.51	\$	2.18	6.55%				\$	37.59	\$	2.08	5.869
Provincial Rebate			31.8%		\$ 7.38			31.8%		\$	9.99	\$	0.61	6.55%		31.8%		\$	10.58	\$	0.59	5.869
Total Bill on RPP (incl Prov. Reba	ate)				\$ 18.83					\$	25.51	\$	1.57	6.55%				\$	27.01	\$	1.50	5.86

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

rvote that the 'Charge's columns provide preakdowns of the amounts that each bill component or consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In ac to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 SS>50kW (kW)- 60, 100, 500, 1000 Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjus

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier R

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Appendix 2-W Bill Impacts

Customer Class: Street Light

TOU / non-TOU: TOU

Consumption 150 kWh May 1 - October 31 O November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Consumption		150 k		May 1 - Octobe	3 31	O Nov	ember 1 - April :	(Select this radio	button for	r applications	filed after Oct 31)	'																
				Board-App	roved		21	021 Propose	i	In	npact 2021	l vs 2020		20	22 Proposed		Impa	act 2022 v	vs 2021		2023	Proposed		lm	pact 2023	vs 2022		2024 Propo	sed
		Rate	, ,	Volume	Charge		Rate	Volume	Charge					Rate	Volume	Charge				Rate		Volume	Charge				Rate	Volume	
Monthly Service Charge	Charge Unit Monthly	(\$) S	0.91	4 4	(\$) 0.91		(\$) 0.95		(\$) \$ 0.95	\$ C	hange 0.04	% Change 4.40%	-	1.02	4.0	(\$) 1.02	\$ Cha	0.07	% Change 7.37%	(\$)	1.08	4.6	1.08	\$ C	hange 0.06	% Change 5.88%	(\$)	10	(\$) 1 \$ 1.13
Smart Meter Rate Adder	Monthly	a (0.91	1 5	0.91		0.95	1	\$ 0.95 \$ -	s	0.04	4.40%		1.02	1 5	1.02	s	0.07	1.31%		1.08	1 \$	1.06	S	0.06	5.66%	1.	13	1 \$ 1.13
Rate Rider Calculation for Gain a	ancper kW	\$	-	1 5	-	\$	-	1	\$ -	\$	-		\$	-	1 \$	-	\$	-		\$	-	1 \$	-	\$	-		\$ -		1 \$ -
Rate Rider Calculation for PILs	per kW	\$	-	1 \$		\$	-		\$ -	\$	-		\$	-	1 \$	-	\$	-		\$	-	1 \$	-	\$	-		\$ -		1 \$ -
Rate Rider Calculation for Gener	ric per kW	\$	-	1 5	-	\$	-	1	\$ - \$ -	\$	-		\$	-	1 \$	-	\$	-		\$	-	1 \$	-	\$	-		\$ -		1 \$ -
Distribution Volumetric Rate	per kW	\$ 6.3	414	1 5	6.34	s	6.6719	1		s	0.33	5.21%	s	7.2257	1 8	7.23	s	0.55	8.30%	s 7	7183	1 \$	7.72	S	0.49	6.82%	\$ 7.98	16	1 \$ - \$ 7.98
Smart Meter Disposition Rider	porter	ψ 0.0		150 \$		•	0.07 10	150		\$	-	0.2170	•	1.2201	150 \$	-	\$	-	0.0070	•	100	150 \$	-	s	-	0.0270			0 \$ -
LRAM Rate Rider	per kW	\$	-	1 \$		-	0.0257	1 -	\$ 0.03	-\$	0.03		-\$	0.0268	1 -\$	0.03	-\$	0.00	4.28%			1 \$	-	\$	0.03	-100.00%			\$ -
				150 S	-			150 150		\$	-				150 \$ 150 \$	-	\$	-				150 \$ 150 \$	-	\$	-				0 \$ -
				150 3				150		s	-				150 \$ 150 \$		s	-				150 \$	- 1	S					0 \$ -
				150 \$				150		\$	-				150 \$	-	\$	-				150 \$	-	s	-				0 \$ -
Deferral/Variance Account	per kW	\$ 0.5	107																										
Disposition Rate Rider Class 2				1.00	0.51	-\$	0.1362	1.00	\$ 0.14	-\$	0.65	-126.67%	-\$	0.1426	1.00 -\$	0.14	-\$	0.01	4.70%	\$	-	1.00 \$	-	\$	0.14	-100.00%	\$ -	1.00	\$ -
				150 8				150	s -	\$	_				150 S	_	s					150 \$		\$	_			15	0 \$ -
				150 \$	-			150	\$ -	\$	-				150 \$	-	\$	-				150 \$	-	\$	-				0 \$ -
Sub-Total A (excluding pass the				\$	7.76				\$ 7.46	-\$	0.30	-3.89%			\$	8.08	\$	0.62	8.26%			\$	8.80	\$	0.72	8.94%			\$ 9.11
Deferral/Variance Account Disposition Rate Rider Class 1	per kW	-\$ 0.0	609	1 -5	0.06		0.20390	1 -	\$ 0.20	-s	0.14	234.81%	-8	0.2134	1 -\$	0.21	-S	0.01	4.66%	s	_	1 8		8	0.21	-100.00%	s -		s .
Disposition rate rate of disco				. [,	0.00		0.20000		0.20	•	0.1-4	201.0170	•	0.2.104		0.21	,	0.01	4.0070	•		. *		1	0.21	100.0070	•		1
Deferral / Variance Accounts	per kW			150	-			150	\$ -	\$	-				150 \$	-	\$	-				150 \$	-	\$	-			15	0 \$ -
Balances (excluding Global Adj.)	perkvv	Þ	-	1.00		s		1.00	s -	s	_		s		1.00 \$	_	s	-		s	_	1.00 \$		\$	_		s -	1.00	s -
- NON-WMP				1.00	·	_		1.00	•	•			•		1.00		,			•		1.00		1			•	1.00	1
Low Voltage Service Charge	per kW	\$ 0.01		1 \$		\$	0.01846		\$ 0.02	-\$	0.00	-0.75%	\$	0.01870	1 \$	0.02	\$	0.00	1.30%	\$ 0.0		1 \$	0.02	\$	0.00	1.18%	\$ 0.019		\$ 0.02
Line Losses on Cost of Power Smart Meter Entity Charge	Monthly	\$ 0.1	276	5 5		\$	0.1276	5		\$	0.01	0.90%	\$	0.1276	5 \$	0.65	\$	-	0.00%	\$ 0.	1276	5 \$	0.65	\$		0.00%	\$ 0.12	6 5	\$ 0.65
Sub-Total B - Distribution	wommy				8.36	Ţ			\$ 7.92	-S	0.44	-5.26%	Ť			8.53		0.61	7.66%	•			9.46		0.94	10.97%			\$ 9.78
(includes Sub-Total A)				- 1		_					0.44		_		*		•							•	0.54				
RTSR - Network RTSR - Line and	per kW	\$ 2.1		1 9		\$	2.1529		\$ 2.15	\$	-	0.00%	\$	2.1529	1 \$	2.15	\$	-	0.00%		1529	1 \$	2.15	\$	-	0.00%	\$ 2.15		1 \$ 2.15
Transformation Connection	per kW	\$ 1.5	528	1 \$	1.55	\$	1.5528	1	\$ 1.55	\$	-	0.00%	\$	1.5528	1 \$	1.55	\$	-	0.00%	\$ 1.5	5528	1 \$	1.55	\$	-	0.00%	\$ 1.55	28	1 \$ 1.55
Sub-Total C - Delivery				5	12.07				\$ 11.63	-S	0.44	-3.64%			\$	12.23	5	0.61	5.22%			s	13.17	s	0.94	7.65%			\$ 13.48
(including Sub-Total B) Wholesale Market Service	per kWh	\$ 0.0	1024		, 12.07	0	0.0034		•	Ť	0.44	0.0470		0.0034	•	12.20	•	0.01		s 0.0	0034	•	10.11		0.0-7	7.0070	\$ 0.00	24	10.40
Charge (WMSC)	perkvvii	\$ 0.0	1034	155	0.53	٠	0.0034	155	\$ 0.53	\$	-	0.00%	3	0.0034	155 \$	0.53	\$	-	0.00%	\$ 0.0	3034	155 \$	0.53	\$	-	0.00%	\$ 0.00	15	5 \$ 0.53
Rural and Remote Rate	per kWh	\$ 0.0	0005	155 5	0.08	\$	0.0005	155	\$ 0.08	s	_	0.00%	\$	0.0005	155 S	0.08	s	-	0.00%	\$ 0.0	0005	155 \$	0.08	\$	_	0.00%	\$ 0.00)5	5 \$ 0.08
Protection (RRRP)						_											1.					100		-					
Standard Supply Service Charge TOU - Off Peak	Monthly		500 010	1 5		\$	0.6200 0.1010	1 98		\$	0.37	148.00% 0.00%	\$	0.6400 0.1010	1 \$ 98 \$	0.64 9.85	\$	0.02	3.23% 0.00%		6600 1010	98 \$	0.66 9.85	\$	0.02	3.13% 0.00%	\$ 0.68 \$ 0.10		1 \$ 0.68 8 \$ 9.85
TOU - Mid Peak			440	26 \$	3.67	\$	0.1440	26	\$ 3.67	\$	-	0.00%	\$	0.1440	26 \$	3.67	\$	-	0.00%		1440	26 \$	3.67	\$	-	0.00%	\$ 0.14	10 2	6 \$ 3.67
TOU - On Peak		\$ 0.2		27 \$		\$	0.2080	27		\$	-	0.00%	\$	0.2080	27 \$	5.62	\$	-	0.00%		2080	27 \$	5.62	\$	-	0.00%	\$ 0.20		7 \$ 5.62
Energy - RPP - Tier 1 Energy - RPP - Tier 2		\$ 0.1 \$ 0.1	190	150 \$		\$	0.1190	150		\$	-	0.00%	\$	0.1190	150 \$	17.85	\$	-	0.00%		1190 1390	150 \$	17.85	\$	-	0.00%	\$ 0.11 \$ 0.13		0 \$ 17.85
		\$ υ.1	390	0 3	,	3	0.1390	U	Ť .	3	-		3	0.1390	0 \$		þ	_		\$ 0.	1390	0 \$		Þ			\$ 0.13	90	
Total Bill on TOU (before Taxe	es)		400/	\$	32.06 4.17		400/		\$ 31.99 \$ 4.16	-\$	0.07	-0.22%		13%	\$	32.61	\$	0.63	1.96%		13%	\$	33.57	\$	0.96	2.93%		NO/	\$ 33.90
Total Bill (including HST)			13%	3			13%		\$ 36.15	-S	0.01	-0.22% -0.22%		13%	s S	4.24 36.85	s	0.08	1.96% 1.96%		13%	\$	4.36 37.93	S	0.12 1.08	2.93% 2.93%	1	3%	\$ 4.41 \$ 38.31
Provincial Rebate		3	1.8%				31.8%			\$	-			31.8%	Ť		\$	-		3	1.8%	Ť		s	-		31.	3%	
Total Bill on TOU (incl Prov. R	tebate)			\$	36.22				\$ 36.15	-\$	0.08	-0.22%			\$	36.85	\$	0.71	1.96%			\$	37.93	\$	1.08	2.93%			\$ 38.31
Total Bill on RPP (before Taxe	is)				30.77	$\overline{}$			\$ 30.70	-S	0.07	-0.23%	_		s	31.33	s	0.63	2.04%			s	32,28	s	0.96	3.05%			\$ 32.62
HST	,		13%	3	4.00		13%		\$ 3.99	-\$	0.01	-0.23%		13%	\$	4.07	\$	0.08	2.04%		13%	\$	4.20	\$	0.12	3.05%	1	3%	\$ 4.24
Total Bill (including HST)				\$	34.77				\$ 34.69	-\$	0.08	-0.23%			\$	35.40	\$	0.71	2.04%			\$	36.48	\$	1.08	3.05%			\$ 36.86
Provincial Rebate	(abata)	3	1.8%		34.77		31.8%		\$ 34.69	\$	0.08	0.220/		31.8%		35.40	\$	0.71	2.04%	3	1.8%		36.48	\$	1.08	3.05%	31.	3%	£ 26.00
Total Bill on RPP (incl Prov. R	epate)			*	34.77				\$ 34.69	-\$	0.08	-0.23%			\$	35.40	•	0./1	2.04%			\$	36.48	\$	1.08	3.05%			\$ 36.86
Loop Engloy (9/)		2.05	009/				2 20000					_		2 20000					·	2.00	2009/					=	2 200	10/	
Loss Factor (%)		3.35	WU0%				3.3800%							3.3800%	ļ					3.3	300%						3.380	170	

¹ Applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010.

Note that the "Charge 5" columns provide breakdowns of the amounts that each bill component contributes to the total monthly bill at the referenced consumption level at existing and proposed rates.

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In addition, their filing must cover the range that is relevant to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000

GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Large User - range appropriate for utility
Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier RPP rates.

Consumption 150 kWh May 1 - Octobe

Customer Class: Street Light

TOU / non-TOU: TOU

			1.00	KW													
				Board-Ap				mpact 202	4 vs 2023			25 Propos			F	Impact 202	5 vs 2024
			Rate	Volume	•	Charge	١.				Rate	Volume		Charge			
Marshir Cardan Obarra	Charge Unit Monthly	\$	(\$)	1	\$	(\$) 0.91	\$	Change 0.05	% Change 4.63%		(\$) 1.16	1	\$	(\$)	- -	\$ Change \$ 0.03	% Change 2.65%
Monthly Service Charge Smart Meter Rate Adder	Monthly	э	0.91	1	\$	0.91	\$	0.05	4.03%		1.10	1	\$	1.16		\$ 0.03 \$ -	2.05%
Rate Rider Calculation for Gain an	upor MM	\$	_	1	\$	-	\$			\$		1	\$			\$ -	
Rate Rider Calculation for PILs	per kW	\$		1	\$: 1	\$			\$	- 1	1	\$			\$ - \$ -	
Rate Rider Calculation for Pills Rate Rider Calculation for Generic		\$	-	1	\$		\$	- 1		S	-	1	\$			\$ - \$ -	
Rate Rider Calculation for Generic	per KVV	ъ	-			-		-		3	-	1					
Distribution Volumetric Rate			6.3414	1	\$	6.34	\$	0.26	3.40%	s	8.2236	1	\$	8.22		\$ - \$ 0.24	3.04%
	per kW	\$	6.3414		\$		\$		3.40%	\$	8.2236						3.04%
Smart Meter Disposition Rider				150	\$	-	\$	-				150	\$	-		\$ -	
LRAM Rate Rider	per kW	\$	-	1	\$	-	\$	-				1	\$	-		\$ -	
				150	\$	-	\$	-				150	\$	-		\$ -	
				150	\$	-	\$	-				150	\$	-		\$ -	
				150	\$	-	\$	-				150	\$	-		\$ -	
				150	\$	-	\$	-				150	\$	-		\$ -	
Deferral/Variance Account	per kW	\$	0.5107														
Disposition Rate Rider Class 2				1.00	\$	0.51	\$	-		\$	-	1.00	\$	-		\$ -	
				150	\$	-	\$	-				150	\$	-		\$ -	
				150	\$	-	\$	-				150	\$	-		\$ -	
Sub-Total A (excluding pass the	rough)				\$	7.76	\$	0.31	3.55%				\$	9.38	- [\$ 0.27	3.00%
Deferral/Variance Account	per kW	-\$	0.0609												П		
Disposition Rate Rider Class 1				1	-\$	0.06	\$	-		\$	-	1	\$	-		\$ -	
				150	\$	-	\$	-				150	\$	-		\$ -	
Deferral / Variance Accounts	per kW	\$	-				1						1				
Balances (excluding Global Adj.)	p	_		1.00	\$	_	s	_		\$		1.00	\$	_	- 1	s -	
- NON-WMP				1.00	Ψ.		1			•		1.00	Ψ.			*	
Low Voltage Service Charge	per kW	\$	0.01860	1	\$	0.02	\$	0.00	0.95%	\$	0.01936	1	\$	0.02	- 1	\$ 0.00	1.36%
Line Losses on Cost of Power	por KII	S	0.1276	5	\$	0.64	s	0.00	0.00%	S	0.1276	5	\$	0.65		\$ -	0.00%
Smart Meter Entity Charge	Monthly	S	0.1270	1	S.	0.04	s		0.0070	S	0.1270	1	\$	0.00		\$ -	0.0070
Sub-Total B - Distribution	mortuny	Ψ					_			_			_				
(includes Sub-Total A)					\$	8.36	\$	0.31	3.30%				\$	10.05		\$ 0.27	2.80%
RTSR - Network	per kW	s	2.1529	1	s	2.15	s		0.00%	s	2.1529	- 1	s	2.15	- 1	s -	0.00%
RTSR - Line and	-	-				2.13		-								-	
Transformation Connection	per kW	\$	1.5528	1	\$	1.55	\$	-	0.00%	\$	1.5528	1	\$	1.55		\$ -	0.00%
Sub-Total C - Delivery							-								- 1		
(including Sub-Total B)					\$	12.07	\$	0.31	2.37%				\$	13.76		\$ 0.27	2.03%
Wholesale Market Service	per kWh	ŝ	0.0034				\vdash			\$	0.0034				- 1-		
Charge (WMSC)	per kwrii	φ	0.0034	155	\$	0.53	\$	-	0.00%	٦	0.0034	155	\$	0.53		\$ -	0.00%
	144/6		0.0005							\$	0.0005						
Rural and Remote Rate	per kWh	\$	0.0005	155	\$	0.08	\$	-	0.00%	3	0.0005	155	\$	0.08		\$ -	0.00%
Protection (RRRP)	Manufalia		0.2500			0.25		0.02	0.0001		0.7000		\$	0.70			0.000
	Monthly	\$		1	\$		\$		3.03%	\$	0.7000	1	\$			\$ 0.02	2.94%
TOU - Off Peak		\$	0.1010	98	\$	9.85	\$	-	0.00%	\$	0.1010	98 26	\$	9.85 3.67		\$ - \$ -	0.00%
TOU - Mid Peak		\$	0.1440	26	\$	3.67	\$		0.00%	\$	0.1440		\$				0.00%
TOU - On Peak		\$	0.2080	27	\$	5.62	\$	-	0.00%	\$	0.2080	27	\$	5.62		\$ -	0.00%
Energy - RPP - Tier 1		\$	0.1190	150	\$	17.85	\$	-	0.00%	\$	0.1190	150	\$	17.85		\$ -	0.00%
Energy - RPP - Tier 2		\$	0.1390	0	\$	-	\$	-		\$	-	0	\$	-		\$ -	
Total Bill on TOU (before Taxes	,				\$	32.06	s	0.33	0.99%				\$	34.20		\$ 0.29	0.87%
HST	,		13%		\$	4.17	\$	0.04	0.99%	1	13%		\$	4.45		\$ 0.29	0.87%
Total Bill (including HST)			13%		\$	36.22	\$	0.04	0.99%	l	13%		\$	38 64		\$ 0.04	0.87%
Provincial Rebate			31.8%		φ	30.22		0.36	0.99%	l	04.00/		Ф	36.04			0.87%
			31.0%				\$	-			31.8%					\$ -	
Total Bill on TOU (incl Prov. Re	bate)				\$	36.22	\$	0.38	0.99%				\$	38.64		\$ 0.33	0.87%
Total Bill on RPP (before Taxes	\				\$	30.77	\$	0.33	1.03%				\$	32.91		\$ 0.29	0.90%
HST (Defore Taxes	,		13%		\$	4.00	\$	0.04	1.03%	1	13%		\$	4.28		\$ 0.29	0.90%
			13%		\$	4.00 34.77		0.04		1	13%		\$	4.28 37.19		\$ 0.04 \$ 0.33	0.90%
Total Bill (including HST)			31.8%		Ф	34.77	\$	0.38	1.03%	1			Þ	37.19			0.90%
Provincial Rebate			31.8%				\$	-			31.8%					\$ -	
Total Bill on RPP (incl Prov. Re	bate)				\$	34.77	\$	0.38	1.03%				\$	37.19		\$ 0.33	0.90%

3.3800%

¹ Applicable to eligible customers only. Refer to the *Ontario Clean Energy Benefit Act*, 2010.

Note that the "Charge \$" columns provide breakdowns of the amounts that each bill component consumption level at existing and proposed rates.

3.3500%

Applicants must provide bill impacts for residential at 800 kWh and GS<50kW at 2000 kWh. In a to their service territory, class by class. A general guideline of consumption levels follows:

Residential (kWh) - 100, 250, 500, 800, 1000, 1500, 2000 GS<50kW (kWh) - 1000, 2000, 5000, 10000, 15000 GS>50kW (kW) - 60, 100, 500, 1000

Loss Factor (%)

Large User - range appropriate for utility Lighting Classes and USL - 150 kWh and 1 kW, range appropriate for utility.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adju

Hydro Ottawa has updated column Fto reflect the most recent Board Approved TOU and Tier

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UPDATED SUMMARY OF CURRENT DEFERRAL AND VARIANCE ACCOUNTS

2

1

1. INTRODUCTION

As originally submitted, this Schedule provides a summary of currently held deferral and variance 5 accounts ("DVAs"), as of December 31, 2018. A continuity schedule for current DVAs can be found in Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity 7 Schedule). While updating its evidence for 2019 actuals, Hydro Ottawa observed that the originally submitted live Excel version of Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule) did not match the PDF version in the Application (which is the correct version). Accordingly, as part of these updates for 2019 actuals, both versions of Attachment 9-1-1(A) are being updated (Excel and PDF).

12

Accounting for 2019 actuals, this Schedule provides a summary of currently held DVAs, as of

December 31, 2019. A continuity schedule for current DVAs can be found in UPDATED

Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule).

16

17 Details of new accounts for which approval is being sought as part of this Application are included

in Exhibit 9-2-1: New Deferral and Variance Accounts. Details of the accounts for which Hydro

Ottawa is seeking disposition are discussed in **UPDATED** Exhibit 9-3-1: Disposition of Deferral

and Variance Accounts.

21

22 **2**. **DETAILS OF DVAs**

- Tables 1 and 2 below present a complete list of Hydro Ottawa's active DVAs. The DVAs are
- 24 categorized based on the OEB's report on the Electricity Distributors' Deferral and Variance
- 25 Account Review Initiative ("EDDVAR Report"), which categorizes the DVAs into Group 1 and
- 26 Group 2 Accounts. In Table 1, Uniform System of Accounts ("USofA") Account 1595 will have a
- 27 Sub-Account for each year from 2016-2020. In Hydro Ottawa's 2020 rate adjustment

 $^{^{28}}$ 1 Ontario Energy Board, Report of the Board on Electricity Distributors' Deferral and Variance Account Review 29 Initiative (EDDVAR) EB-2008-0046 (July 31, 2009).



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1 application, the Sub-Account for 2014 was cleared on a final basis and is thus not included as

2 part of this Application.²

3

4 Hydro Ottawa confirms that DVAs are being used as prescribed in the OEB's Accounting

5 Procedures Handbook ("APH"). Please refer to UPDATED Exhibit 9-1-2: Group 1 Accounts and

6 **UPDATED** Exhibit 9-1-3: Group 2 Accounts for additional information on these Accounts.

7

8

Table 1 – Group 1 DVAs

Group 1 Account – Description	Account
Low Voltage ("LV") Variance Account	1550
Smart Meter Entity Charge Variance Account	1551
Retail Settlement Variance Account ("RSVA") – Wholesale Market Service Charge	1580
RSVA – Retail Transmission Network Charge	1584
RSVA – Retail Transmission Connection Charge	1586
RSVA – Power (excluding Global Adjustment)	1588
RSVA – Global Adjustment	1589
Disposition and Recovery/Refund of Regulatory Balances (2016-2020)	1595

9

10

Table 2 - Group 2 DVAs

Group 2 Account – Description	Account
Other Regulatory Assets ³	1508
Retail Cost Variance Account – Retail ⁴	1518
Pension & Other Post-Employment Benefits ("OPEB") Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	1522
Renewable Generation Connection Funding Adder Deferral Account	1533
Retail Cost Variance Account – Service Transaction Request ("STR") ⁵	1548
Lost Revenue Adjustment Mechanism ("LRAM") Variance Account	1568
PILS and Tax Variance	1592

-

² Ontario Energy Board, *Decision and Rate Order*, EB-2019-0046 (December 17, 2019), pages 13-15.

³ This Account has multiple Sub-Accounts. Please see Table 4 below (as updated) for a complete list.

⁴ No principal amounts have been recorded into this Account since Hydro Ottawa discontinued its use on December 31, 2015. The Account is active due to historical balances and continued accumulation of carrying charges. Please see Exhibit 9-1-5: Retail Service Charges for further details.



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1 3. CONTINUITY SCHEDULE

A complete continuity schedule for all DVAs, including Sub-Accounts, can be found in Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule), as originally submitted. Hydro Ottawa is using the DVA Workform provided by the OEB on January 31, 2020 via email. The utility has updated the model using audited balances to the end of 2018, and has included 2020 disposition and specific adjustments related to 2019 (inputted into the principal adjustments column BF). Further details on each adjustment are provided in the following pieces of evidence: sheet "3. Appendix A" within Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule); Exhibit 9-1-3: Group 2 Accounts; and Exhibit 9-1-4: Account 1592 PILS and Tax Variance.

11

12 In its original Application, Hydro Ottawa indicated that it will update the DVA model for 2019
13 actuals at a later stage in this Application's proceeding.

14

Accounting for 2019 actuals, a complete continuity schedule for all DVAs, including Sub-Accounts, can be found in UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule). Hydro Ottawa is using the DVA Workform provided by the OEB on January 31, 2020 via email. The utility has updated the model using audited balances to the end of 2019, and has included specific adjustments related to 2019 and 2020 (inputted into the principal adjustments column BF). Further details on each adjustment are provided in the following pieces of evidence: sheet "3. Appendix A" within UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule), UPDATED Exhibit 9-1-3: Group 2 Accounts, and UPDATED Exhibit 9-1-4: Account 1592 PILS and Tax Variance. Hydro Ottawa has added formulas to cells BV80 and BV91 to ensure the variances in cells BW80 and BW91, respectively, are correct in tab 2b. 2017 Continuity Schedule of the UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule).

28

29 For more details on Hydro Ottawa's proposed disposition of DVAs, please see UPDATED
30 Exhibit 9-3-1: Disposition of Deferral and Variance Accounts.



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1 4. CARRYING CHARGES

2 The interest rate used for the calculation of all carrying charges to applicable Accounts is

3 prescribed by the OEB and published quarterly on its website. Table 3, as originally submitted,

4 provides a summary of these interest rates up to Q1 2020. The updated version of Table 3

5 includes the interest rates up to Q2 2020. Hydro Ottawa confirms that it uses these interest

6 rates, where applicable.

Table 3 – AS ORIGINALLY SUBMITTED – Interest Rates for Carrying Charges on DVAs

Prescribed Interest Rate									
Period Used	Approved for Deferral and Variance Accounts	CWIP Account - Prescribed Interest Rate							
Q3 2019 to Q1 2020	2.18%	2.88%							
Q2 2019	2.18%	3.39%							
Q1 2019	2.45%	3.82%							
Q4 2018	2.17%	3.35%							
Q2 2018 to Q3 2018	1.89%	3.35%							
Q4 2017 to Q1 2018	1.50%	2.99%							
Q3 2017	1.10%	2.53%							
Q1 2017 to Q2 2017	1.10%	2.81%							
Q4 2016	1.10%	2.46%							
Q1 2016 to Q3 2016	1.10%	2.92%							
Q3 2015 to Q4 2015	1.10%	2.55%							
Q2 2015	1.10%	2.28%							
Q1 2015	1.47%	2.89%							

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7



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Table 3 – UPDATED FOR 2019 ACTUALS – Interest Rates for Carrying Charges on DVAs

Prescribed Interest Rate									
Period Used	Approved for Deferral and Variance Accounts	CWIP Account - Prescribed Interest Rate							
Q2 2020	<mark>2.18%</mark>	2.48%							
Q3 2019 to Q1 2020	2.18%	2.88%							
Q2 2019	2.18%	3.39%							
Q1 2019	2.45%	3.82%							
Q4 2018	2.17%	3.35%							
Q2 2018 to Q3 2018	1.89%	3.35%							
Q4 2017 to Q1 2018	1.50%	2.99%							
Q3 2017	1.10%	2.53%							
Q1 2017 to Q2 2017	1.10%	2.81%							
Q4 2016	1.10%	2.46%							
Q1 2016 to Q3 2016	1.10%	2.92%							
Q3 2015 to Q4 2015	1.10%	2.55%							
Q2 2015	1.10%	2.28%							
Q1 2015	1.47%	2.89%							

3 5. RECONCILIATION OF CONTINUITY SCHEDULE VS. REPORTING AND RECORD 4 KEEPING REQUIREMENTS

As originally submitted, Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule) only has immaterial differences in the Account balances as of December 31, 2018 between the continuity schedule and 2.1.7 of the OEB's Reporting and Record

Reeping Requirements ("RRRs"). Hydro Ottawa has calculated column BV of the continuity

9 schedule using updated 2018 RRR values. As indicated earlier in this Schedule, specific

adjustments have been made related to Group 2 Accounts.

12 Accounting for 2019 actuals, UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and

3 Variance Account (Continuity Schedule) has immaterial differences in the updated Account

balances as of December 31, 2019 between the continuity schedule and 2.1.7 of the OEB's

15 RRRs. Hydro Ottawa has calculated column BV of the continuity schedule using updated 2019

16 RRR values. As indicated earlier in this Schedule, specific adjustments have been made related

17 to Group 2 Accounts.

2

11



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1 Account 1588 and Account 1589 are different from the RRR balances, as the balances in the

2 continuity schedule reflect OEB Filing Requirement true-ups in 2018 and 2019.

3

4 As originally submitted, sub-Account 1508, other regulatory assets - Y factor variance, does not balance to the 2018 RRR values as there is a \$5.7M principal adjustment in the 2018 column.

5 This adjustment was made to clear the revenue requirement related to Hydro Ottawa's new

7 facilities for 2019 and 2020 on an interim basis, as per the Approved Settlement Agreement

governing the utility's 2016-2020 rate term.6 Additional adjustments related to the Y Factor

9 Account, the New Facilities Deferral Account, and the Gains/Losses from Sale of Existing

10 Facilities Deferral Account have been entered into the 2019 column. Based on updates for 2019

11 actuals, the Y factor does not balance to the 2019 RRR values as there is a \$3.4M principal

adjustment in the 2019 column which consists of an adjustment for both 2019 and 2020. Please

13 refer to UPDATED Exhibit 9-1-3: Group 2 Accounts as well as sheet "3. Appendix A" within

4 UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity

15 Schedule) for further information.

16

17 As originally submitted, sub-Account of 1592 – PILS and Tax Variances – Capital Cost

18 Allowance ("CCA") Changes does not balance to 2018 RRR values, as an adjustment has been

9 entered into the 2019 principal column. On July 25, 2019, the OEB released a letter which

0 directed utilities to record into a newly established Sub-Account of 1592 the tax impact of Bill

²¹ C-97. Hydro Ottawa has entered an adjustment amount in order to clear balances related to Bill

22 C-97. Please see sheet "3. Appendix A" within UPDATED Attachment 9-1-1(A): OEB Workform -

23 Deferral and Variance Account (Continuity Schedule) as well as UPDATED Exhibit 9-1-4:

24 Account 1592 PILS and Tax Variance for further information on this Sub-Account. Based on

25 updates for 2019 actuals, sub-account 1592 does not balance to the 2019 RRR values as there

26 is a \$(5.4M) principal adjustment in the 2019 column which consists of adjustments for 2019

27 and 2020.

.

⁶ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Approved Settlement Proposal*, EB-2015-0004 (December 7, 2015).

⁷ Ontario Energy Board, Letter re: *Accounting Direction Regarding Bill C-97 and Other Changes in Regulatory or Legislated Tax Rules for Capital Cost Allowance* (July 25, 2019).



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- 1 Finally, adjustments have been made to the LRAM Variance Account (as originally submitted) in
- 2 columns BD and BI to reverse all LRAM recorded up to December 31, 2018, while another
- 3 adjustment was added to column BF to balance with the LRAM being requested as per Exhibit
- 4 4-5-2: LRAM Variance Account. Please see Exhibit: 4-5-2: LRAM Variance Account for
- 5 information on the amount being requested for clearance.

6

- 7 Accounting for 2019 actuals, adjustments have been made to the LRAM Variance Account in
- 8 columns BF and BK to reverse all LRAM recorded up to December 31, 2019, while another
- 9 adjustment in the same cell includes the LRAM being requested as per UPDATED Exhibit 4-5-2:
- 10 LRAM Variance Account. Please see UPDATED Exhibit: 4-5-2: LRAM Variance Account for
- 11 information on the amount being requested for clearance.

12

13 6. NEW DVAs AND SUB-ACCOUNTS

14 Please see Exhibit 9-2-1: New Deferral and Variance Accounts for information.

15

16 7. ADJUSTMENTS TO DVAs

- 17 Hydro Ottawa confirms that it has not made any adjustments to DVA balances that were
- 18 previously approved by the OEB on a final basis.

19

20 8. STATUS OF GROUP 2 ACCOUNTS

- 21 Hydro Ottawa identified active Group 2 Accounts in Table 2 above. The updated version of
- 22 Table 4 below outlines how the utility's planned action for the Group 2 Accounts in 2021-2025
- 23 (i.e. continue, continue with modification, add, or discontinue). For information on those
- 24 Accounts for which Hydro Ottawa is requesting modification, please see Exhibit 9-2-1: New
- 25 Deferral and Variance Accounts. For information on those Accounts which Hydro Ottawa is
- 26 requesting to add, please see UPDATED Exhibit 9-1-3: Group 2 Accounts.



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Table 4 – AS ORIGINALLY SUBMITTED – Proposed Action on Group 2 Accounts for 2021-2025

Group 2 Account - Description	Account	Continue/Discontinue
Other Regulatory Assets - Sub-Accounts		
Incremental Capital Charges	1508	Continue
Capital Charges	1508	Continue
Pension & OPEB	1508	Continue
Energy East Consultation Costs ⁸	1508	Discontinue
Pole Attachment Charge Revenues Variance Account	1508	Discontinue
Wireless Attachment Revenues Deferral Account	1508	Discontinue
Y-Factor Variance Account	1508	Discontinue
Gains/Losses from Sale of Existing Facilities Deferral	1508	Discontinue
New Facilities Deferral Account	1508	Discontinue
Gains and Loss on Disposal of Fixed Assets Variance Account	1508	Continue
Earnings Sharing Mechanism ("ESM") Variance Account	1508	Continue with Modification
Connection Cost Recovery Agreement Payment	1508	Continue with Modification
Efficiency Adjustment Mechanism Deferral Account	1508	Continue
OEB Cost Assessment Variance	1508	Continue ⁹
Retail Cost Variance Account – Retail	1518	Discontinue
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	1522	Continue
Renewable Generation Connection Funding Adder Deferral Account	1533	Continue
Retail Cost Variance Account – STR	1548	Discontinue
LRAM Variance Account	1568	Continue
PILS and Tax Variances - Sub-Account: CCA Changes	1592	Continue

3

1 2

⁸ In Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule), the formal name for this item is Other Regulatory Assets - Sub-Account-East Energy Cost Defer Cost.

⁹ Hydro Ottawa will record amounts into the OEB Cost Assessment Variance Account until December 31, 2020, prior to the rebasing of rates in 2021. This Account will therefore not have additional principal balances recorded during the 2021-2025 period. However, it will be cleared and discontinued after December 31, 2020.



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Table 4 – UPDATED FOR 2019 ACTUALS – Proposed Action on Group 2 Accounts for 2021-2025

Group 2 Account - Description	Account	Continue/Discontinue
Other Regulatory Assets - Sub-Accounts		
Incremental Capital Charges	1508	Continue
Capital Charges	1508	Continue
Pension & OPEB	1508	Continue
Energy East Consultation Costs ¹⁰	1508	Discontinue
Pole Attachment Charge Revenues Variance Account	1508	Discontinue
Wireless Attachment Revenues Deferral Account	1508	Discontinue
Y-Factor Variance Account	1508	Discontinue
Gains/Losses from Sale of Existing Facilities Deferral	1508	Discontinue
New Facilities Deferral Account	1508	Discontinue
Gains and Loss on Disposal of Fixed Assets Variance Account	1508	Continue
Earnings Sharing Mechanism ("ESM") Variance Account	1508	Continue with Modification
Connection Cost Recovery Agreement Payment	1508	Continue with Modification
Efficiency Adjustment Mechanism Deferral Account	1508	Continue
OEB Cost Assessment Variance	1508	Continue ¹¹
Impacts Arising from COVID-19 Emergency		
Cost Associated With Billing and System Changes	1509	Add
Lost Revenues	1509	Add
Other Costs	1509	Add
Retail Cost Variance Account – Retail	1518	Discontinue
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	1522	Continue
Renewable Generation Connection Funding Adder Deferral Account	1533	Continue
Retail Cost Variance Account – STR	1548	Discontinue
LRAM Variance Account	1568	Continue
PILS and Tax Variances - Sub-Account: CCA Changes	1592	Continue

3

2

¹⁰ In UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule), the formal name for this item is Other Regulatory Assets - Sub-Account-East Energy Cost Defer Cost.

¹¹ Hydro Ottawa will record amounts into the OEB Cost Assessment Variance Account until December 31, 2020, prior to the rebasing of rates in 2021. This Account will therefore not have additional principal balances recorded during the 2021-2025 period. However, it will be cleared and discontinued after December 31, 2020.



2021 Deferral/Variance Account Workform

Hillity Name | Lydra Ottowa Limited

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Othity Name	nyuro Ottawa Liffilled
Service Territory	
Assigned EB Number	EB-2019-0046
Name of Contact and Title	Greg Van Dusen, Director, Regulatory Affairs
Phone Number	613-738-5499 ext. 7472
Email Address	RegulatoryAffairs@HydroOttawa.com
Questions	
To determine the first year the continuity schedules	s in tabs 2a and 2b will be generated for input, answer the following questions:
Question 1 For Accounts 1588 and 1589, Please indicate the year the accounts were last dispose	ed on a final basis
b) If the accounts were last approved on an interim bas i) there are no changes to the previously approved approved for diposition on an interim basis.	ed interim balances, select the year that the balances were last 2018
for disposition on a final basis.	interim balaces, select the year that the balances were last approved
(e.g. If 2017 balances reviewed in the 2019 rate applica	tion were to be selected, select 2017)
Question 2 For the remaining Group 1 DVAs, Please indicate the year the accounts were last dispose	ed on a final basis
b) If the accounts were last approved on an interim bas i) there are no changes to the previously approved approved for diposition on an interim basis.	elect the year that the balance was last approved on a final basis. is, and ed interim balances, select the year that the balances were last interim balaces, select the year that the balances were last approved
Question 3 Select the earliest vintage year in which there is a balar (e.g. If 2016 is the earliest vintage year in which there is	
Question 4 Select the earlier of i) the year in which Group 2 DVAs varied to accumulate	were last disposed and ii) the earliest year in which Group 2 DVAs
To determine whether tabs 6 and 6.2 will be general	ed, answer the following questions
Question 5 Did you have any Class A customers at any point during year the balance selected in #1 above to the year requestions.	g the period that the Account 1589 balance accumulated (i.e. from the sted for disposition) or the test year?
Question 6	
	g the period where the balance in Account 1580, Sub-account CBR above to the year requested for disposition) or the test year?
General Notes	
Notes	and le
Pale green cells represent input	
	wn lists. The applicant should select the appropriate item from the drop-down list.
White cells contain fixed values, a	automatically generated values or formulae.
Pale grey cell represent auto-pop	ulated RRR data
provide a copy of this model to any person that is advising or assi modification, reverse engineering or other use or dissemination of	e available to you solely for the purpose of preparing your rate application. You may use and copy this model for that purpose, and sting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.



2021 Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

					2016				
Account Descriptions	Account Number	Opening Principal Amounts as of Jan- 1-16	Transactions Debit/ (Credit) during 2016	OEB-Approved Disposition during 2016	Principal Adjustments(1) during 2016	Closing Principal Balance as of Dec-31-16	Opening Interest Amounts as of Jan-1-16	Interest Jan-1 to Dec-31-16	
Group 1 Accounts									
LV Variance Account	1550	\$0				\$0	\$0		
Smart Metering Entity Charge Variance Account	1551	\$0				\$0	\$0		
RSVA - Wholesale Market Service Charge ⁵	1580	\$0				\$0	\$0		
Variance WMS – Sub-account CBR Class A ⁵	1580	\$0				\$0	\$0		
Variance WMS – Sub-account CBR Class B ⁵	1580	\$0				\$0	\$0		
RSVA - Retail Transmission Network Charge	1584	\$0				\$0	\$0		
RSVA - Retail Transmission Connection Charge	1586	\$0				\$0	\$0		
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$0				\$0	\$0		
RSVA - Global Adjustment ⁴	1589	\$0				\$0	\$0		
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	\$0	-\$77,471	-\$631,762	-\$520,642	\$33,649	\$0	\$636	
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595	\$0				\$0	\$0		
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	\$0	\$5,020,832	\$4,949,683		\$71,149	\$0	-\$25,015	
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595	\$0				\$0	\$0		
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	\$0				\$0	\$0		
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	\$0				\$0	\$0		
Not to be disposed of until a year after rate rider has expired and that balance has be	en audited								
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		\$0	\$4,943,361	\$4,317,921	-\$520,642	\$104,798	\$0	-\$24,378	
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		\$0	\$4,943,361	\$4,317,921	-\$520,642	\$104,798	\$0	-\$24,378	
RSVA - Global Adjustment 4	1589	\$0	\$0	\$0	\$0	\$0	\$0	\$0	

Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

Account Descriptions	Account Number	OEB-Approved Disposition during 2016	Interest Adjustments(1) during 2016	Closing Interest Amounts as of Dec-31-16
Group 1 Accounts				
LV Variance Account	1550			\$(
Smart Metering Entity Charge Variance Account	1551			\$(
RSVA - Wholesale Market Service Charge ⁵	1580			\$(
Variance WMS – Sub-account CBR Class A ⁵	1580			\$(
Variance WMS – Sub-account CBR Class B ⁵	1580			\$(
RSVA - Retail Transmission Network Charge	1584			\$0
RSVA - Retail Transmission Connection Charge	1586			\$(
RSVA - Power (excluding Global Adjustment) ⁴	1588			\$(
RSVA - Global Adjustment ⁴	1589			\$(
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	-\$138,969	-\$137,952	\$1,65
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595			\$0
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	\$9,584		-\$34,599
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595			\$0
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595			\$0
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595			\$(
Not to be disposed of until a year after rate rider has expired and that balance has	been audited			
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		-\$129,385	-\$137,952	-\$32,94
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		-\$129,385	-\$137,952	-\$32,94
RSVA - Global Adjustment 4	1589	\$0	\$0	\$0

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Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

	2017										
Account Descriptions	Account Number	Opening Principal Amounts as of Ja 1-17	Transactions(1) Debit an- / (Credit) during 2017	OEB-Approved Disposition during 2017	Principal Adjustments(1) during 2017	Closing Principal Balance as of Dec-31-17	Opening Interest Amounts as of Jan-1-17	Interest Jan-1 to Dec-31-17	OEB-Approved Disposition during 2017	Interest Adjustments(1) during 2017	
Group 1 Accounts											
LV Variance Account	1550	5	00			\$0	\$0				
Smart Metering Entity Charge Variance Account	1551	\$	60			\$0	\$0				
RSVA - Wholesale Market Service Charge ⁵	1580	\$	00			\$0	\$0				
Variance WMS – Sub-account CBR Class A ⁵	1580	\$	00			\$0	\$0				
Variance WMS – Sub-account CBR Class B ⁵	1580	5	00			\$0	\$0				
RSVA - Retail Transmission Network Charge	1584		00			\$0	\$0				
RSVA - Retail Transmission Connection Charge	1586	\$	60			\$0	\$0				
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$	60			\$0	\$0				
RSVA - Global Adjustment ⁴	1589	5	00			\$0	\$0				
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	\$33,64	-\$12,680	\$111,120		-\$90,151	\$1,653	-\$930	\$2,239		
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595	\$	0			\$0	\$0				
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	\$71,14	\$20,005			\$91,153	-\$34,599	\$172		\$4,983	
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595	\$	\$21,380,004	\$22,074,574		-\$694,570	\$0	-\$133,946	\$169,815		
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	\$	00			\$0	\$0				
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	5	00			\$0	\$0				
Not to be disposed of until a year after rate rider has expired and that balance ha	as been audited										
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		\$104,79		\$22,185,694	\$0		-\$32,945	-\$134,704	\$172,054	\$4,983	
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		\$104,79		\$22,185,694	\$0		-\$32,945	-\$134,704	\$172,054	\$4,983	
RSVA - Global Adjustment 4	1589		\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	

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Hydro Ottawa Limited

Energy Board

Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

							2018			
Account Descriptions	Account Number	Closing Interest Amounts as of Dec-31-17	Opening Principal Amounts as of Jan- 1-18	Transactions(1) Debit / (Credit) during 2018	OEB-Approved Disposition during 2018	Principal Adjustments(1) during 2018	Closing Principal Balance as of Dec-31-18	Opening Interest Amounts as of Jan-1-18	Interest Jan-1 to Dec-31-18	OEB-Approved Disposition during 2018
Group 1 Accounts										
LV Variance Account	1550	\$0	\$0			-\$359,930	-\$359,930	\$0		
Smart Metering Entity Charge Variance Account	1551	\$0	\$0			-\$369,519	-\$369,519	\$0		
RSVA - Wholesale Market Service Charge ⁵	1580	\$0	\$0			-\$8,655,881	-\$8,655,881	\$0		
Variance WMS – Sub-account CBR Class A ⁵	1580	\$0	\$0			\$0	\$0	\$0		
Variance WMS – Sub-account CBR Class B ⁵	1580	\$0	\$0			-\$221,281	-\$221,281	\$0		
RSVA - Retail Transmission Network Charge	1584	\$0	\$0			\$469,735	\$469,735			
RSVA - Retail Transmission Connection Charge	1586	\$0	\$0			-\$3,113,644	-\$3,113,644			
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$0	\$0			\$817,468	\$817,468			
RSVA - Global Adjustment ⁴	1589	\$0	\$0			-\$1,561,781	-\$1,561,781	\$0		
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	-\$1,516	-\$90,151	\$29			-\$90,123	-\$1,516	-\$1,680	
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595	\$0	\$0				\$0	\$0		
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	-\$29,443	\$91,153	-\$37			\$91,117	-\$29,443	\$2,644	
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595	-\$303,762	-\$694,570	\$505,671			-\$188,899	-\$303,762	-\$4,864	
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	\$0	\$0	\$11,447,552	\$11,733,407		-\$285,855	\$0	-\$114,111	\$304,969
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	\$0	\$0				\$0	\$0		
Not to be disposed of until a year after rate rider has expired and that balance has been	en audited									
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		-\$334,721	-\$693,567	\$11,953,215	\$11,733,407	-\$12,994,832	-\$13,468,592	-\$334,721	-\$118,011	\$304,969
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		-\$334,721	-\$693,567	\$11,953,215	\$11,733,407	-\$11,433,051	-\$11,906,811	-\$334,721	-\$118,011	\$304,969
RSVA - Global Adjustment 4	1589	\$0	\$0	\$0	\$0	-\$1,561,781	-\$1,561,781	\$0	\$0	\$0

Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

Account Descriptions	Account Number	Interest Adjustments(1) during 2018	Closing Interest Amounts as of Dec-31-18
Group 1 Accounts			
LV Variance Account	1550	-\$7,937	-\$7,937
Smart Metering Entity Charge Variance Account	1551	-\$6,014	-\$6,014
RSVA - Wholesale Market Service Charge ⁵	1580	-\$188,875	-\$188,875
Variance WMS – Sub-account CBR Class A ⁵	1580	\$0	\$0
Variance WMS – Sub-account CBR Class B ⁵	1580	-\$4,264	-\$4,264
RSVA - Retail Transmission Network Charge	1584	\$5,426	\$5,426
RSVA - Retail Transmission Connection Charge	1586	-\$75,458	-\$75,458
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$40,606	\$40,606
RSVA - Global Adjustment ⁴	1589	\$116,929	\$116,929
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595		-\$3,196
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595		\$0
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595		-\$26,799
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595		-\$308,626
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595		-\$419,080
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595		\$0
Not to be disposed of until a year after rate rider has expired and that balance has	been audited		
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		-\$119,587	-\$877,288
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		-\$236,516	-\$994,217
RSVA - Global Adjustment 4	1589	\$116,929	\$116,929

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Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

Account Descriptions	Account Number		Transactions Debit / (Credit) during 2019	OEB-Approved Disposition during 2019	Principal Adjustments(1) during 2019	Closing Principal Balance as of Dec-31-19	Opening Interest Amounts as of Jan-1-19	Interest Jan-1 to Dec-31-19	OEB-Approved Disposition during 2019	Interest Adjustments(1) during 2019
Group 1 Accounts										
LV Variance Account	1550	-\$359,930	-\$304,865	-\$274,566		-\$390,228	-\$7,937	-\$3,872	-\$7,221	\$0
Smart Metering Entity Charge Variance Account	1551	-\$369,519	-\$75,564	-\$65,851		-\$379,232	-\$6,014	-\$7,495	-\$1,574	\$0
RSVA - Wholesale Market Service Charge ⁵	1580	-\$8,655,881	-\$2,022,576	-\$7,272,642		-\$3,405,815	-\$188,875	-\$24,805	-\$183,396	\$0
Variance WMS – Sub-account CBR Class A ⁵	1580	\$0	\$0			\$0	\$0	\$0		\$0
Variance WMS – Sub-account CBR Class B ⁵	1580	-\$221,281	-\$477,649	-\$81,039		-\$617,890	-\$4,264	-\$7,691	-\$2,537	\$0
RSVA - Retail Transmission Network Charge	1584	\$469,735	-\$714,195	\$364,929		-\$609,389	\$5,426		\$8,868	\$0
RSVA - Retail Transmission Connection Charge	1586	-\$3,113,644	-\$4,577,938	-\$2,496,268		-\$5,195,315	-\$75,458		-\$66,807	\$0
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$817,468	\$1,227,760	-\$246,284	-\$484,568	\$1,806,944	\$40,606	\$21,992	\$2,710	\$0
RSVA - Global Adjustment ⁴	1589	-\$1,561,781	\$5,277,705	\$2,544,768	\$485,255	\$1,656,411	\$116,929	\$70,537	\$94,304	\$0
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	-\$90,123				-\$90,123	-\$3,196	-\$2,025		\$0
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595	\$0				\$0	\$0			
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	\$91,117	\$180			\$91,297	-\$26,799	\$111		\$0
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595	-\$188,899	\$745			-\$188,154	-\$308,626	-\$4,234		\$0
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	-\$285,855	\$13,262			-\$272,592	-\$419,080	-\$6,320		\$0
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	\$0	\$7,774,638	\$7,526,954		\$247,684	\$0	-\$92,883	\$155,654	
Not to be disposed of until a year after rate rider has expired and that balance has be	een audited									
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		-\$13,468,592	\$6,121,503	\$0	\$687	-\$7,346,401	-\$877,288	-\$130,929	\$0	\$0
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		-\$11,906,811	\$843,799	-\$2,544,768	-\$484,568	-\$9,002,813	-\$994,217	-\$201,466	-\$94,304	\$0
RSVA - Global Adjustment 4	1589	-\$1,561,781	\$5,277,705	\$2,544,768	\$485,255	\$1,656,411	\$116,929	\$70,537	\$94,304	\$0

Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

		2020					
Account Descriptions	Account Number	Closing Interest Amounts as of Dec-31-19	Principal Disposition during 2020 - instructed by OEB	Interest Disposition during 2020 - instructed by OEB	Closing Principal Balances as of Dec 31-19 Adjusted for Dispositions during 2020	Closing Interest Balances as of Dec 31-19 Adjusted for Dispositions during 2020	
Group 1 Accounts							
LV Variance Account	1550	-\$4,588	-\$85,363	-\$2,635	-\$304,865	-\$1,954	
Smart Metering Entity Charge Variance Account	1551	-\$11,935	-\$303,668	-\$11,264	-\$75,564	-\$670	
RSVA - Wholesale Market Service Charge ⁵	1580	-\$30,283	-\$1,383,239	-\$36,567	-\$2,022,576	\$6,284	
Variance WMS – Sub-account CBR Class A ⁵	1580	\$0			\$0	\$0	
Variance WMS – Sub-account CBR Class B ⁵	1580	-\$9,418	-\$140,241	-\$4,878	-\$477,649	-\$4,540	
RSVA - Retail Transmission Network Charge	1584	-\$13,506	\$104,806	-\$1,087	-\$714,195	-\$12,419	
RSVA - Retail Transmission Connection Charge	1586	-\$72,833	-\$617,377	-\$22,527	-\$4,577,938	-\$50,306	
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$59,888	\$1,063,752	\$61,804	\$743,192	-\$1,916	
RSVA - Global Adjustment ⁴	1589	\$93,162	-\$4,106,548	-\$69,669	\$5,762,960	\$162,832	
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	-\$5,221	-\$90,123	-\$5,221	\$0	\$1	
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595	\$0			\$0	\$0	
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	-\$26,688			\$91,297	-\$26,688	
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595	-\$312,860			-\$188,154	-\$312,860	
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	-\$425,399			-\$272,592	-\$425,399	
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	-\$248,537			\$247,684	-\$248,537	
Not to be disposed of until a year after rate rider has expired and that balance has been	en audited						
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		-\$1,008,217	-\$5,558,000	-\$92,045	-\$1,788,401	-\$916,173	
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		-\$1,101,380	-\$1,451,452	-\$22,375	-\$7,551,361	-\$1,079,004	
RSVA - Global Adjustment 4	1589	\$93,162	-\$4,106,548	-\$69,669	\$5,762,960	\$162,832	

Hydro Ottawa Limited EB-2019-0261 Exhibit 9 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 8 of 25

Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

		Projected Interest	Projected Interest on Dec-31-19 Balances								
Account Descriptions	Account Number	Projected Interest from Jan 1, Projected Interest from Jan 2020 to December 31, 2020 on 1, 2021 to April 30, 2021 or Dec 31 -19 balance adjusted for disposition during 2020 (2) disposition during 2020	n Dec Total Interest	Total Claim	Accounts To Dispose Yes/No						
Group 1 Accounts											
LV Variance Account	1550	-\$6,646	-\$8,600	-\$313,464.82							
Smart Metering Entity Charge Variance Account	1551	-\$1,647	-\$2,317	-\$77,881.74							
RSVA - Wholesale Market Service Charge ⁵	1580	-\$44,092	-\$37,808	-\$2,060,383.95							
Variance WMS – Sub-account CBR Class A ⁵	1580	\$0	\$0	\$0.00							
Variance WMS – Sub-account CBR Class B ⁵	1580	-\$10,413	-\$14,952	-\$492,600.82							
RSVA - Retail Transmission Network Charge	1584	-\$15,569	-\$27,988	-\$742,183.84							
RSVA - Retail Transmission Connection Charge	1586	-\$99,799	-\$150,106	-\$4,728,043.83							
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$16,202	\$14,286	\$757,477.82	Yes						
RSVA - Global Adjustment ⁴	1589	\$125,633	\$288,464	\$6,051,423.89	Yes						
Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	\$0	\$1	\$0.00	No						
Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595	\$0	\$0	\$0.00	No						
Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	\$1,990	-\$24,697	\$66,599.57	Yes						
Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595	-\$4,102	-\$316,962	-\$505,115.85	Yes						
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	-\$5,943	-\$431,342	\$0.00	No						
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	\$5,400	-\$243,138	\$0.00	No						
Not to be disposed of until a year after rate rider has expired and that balance has	been audited										
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		-\$38,987	\$0 -\$955,160	-\$2,044,173.57							
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		-\$164,620	\$0 -\$1,243,624	-\$8,095,597.45							
RSVA - Global Adjustment 4	1589	\$125,633	\$0 \$288,464	\$6,051,423.89							

Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

Account Descriptions Account Number As of Dec 31-19 Variance RRR vs. 2019 Balance (Principal + Interest) Group 1 Accounts LV Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge 1550 Say 3,166.12 So Variance WMS – Sub-account CBR Class A ⁵ Variance WMS – Sub-account CBR Class B ⁵ 1580 Variance WMS – Sub-account CBR Class B ⁵ 1580 So 64 Variance WMS – Sub-account CBR Class B ⁵ 1580 So 527, 306.82 S1 SSVA – Retail Transmission Connection Charge 1584 So 52,886,148,22 So RSVA – Retail Transmission Connection Charge 1586 So 5,286,148,22 So So 1,141,631 Please provide an explanation of the variance in the tab 3 - Appendix A SSVA – Global Adjustment 1589 Si 199,514.10 Si 199,40 Please provide an explanation of the variance in the tab 3 - Appendix A Si 199,40 Ple			2.1.7 RRR		
LV Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Variance Account Smart Metering Entity Charge Smart Metering Entity Charge Smart Metering Entity Charge Smart Metering Smart Metering Smart Metering Smart Metering Entity Charge Smart Metering Entity Charge Smart Metering Entity Charge Smart Metering Smart Metering Smart Metering Smart Metering Entity Charge Smart Metering Smart Metering Smart Metering Entity Charge Smart Metering Smart Metering Entity Charge Smart Metering S	Account Descriptions		As of Dec 31-19	RRR vs. 2019 Balance	
Smart Metering Entity Charge Variance Account RSVA - Wholesale Market Service Charge ⁵ 1580 Variance WMS - Sub-account CBR Class A ⁵ RSVA - Retail Transmission Network Charge RSVA - Retail Transmission Network Charge 1586 RSVA - Retail Transmission Connection Charge RSVA - Power (excluding Global Adjustment) ⁴ RSVA - Power (excluding Global Adjustment) ⁴ RSVA - Global Adjustment ⁴ Disposition and Recovery/Refund of Regulatory Balances (2014) ³ Disposition and Recovery/Refund of Regulatory Balances (2015) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018)	Group 1 Accounts				
RSVA - Wholesale Market Service Charge 5 1580 Variance WMS - Sub-account CBR Class A5 1580 Variance WMS - Sub-account CBR Class B5 1580 Variance WMS - Sub-account CBR Class B5 1580 RSVA - Retail Transmission Network Charge RSVA - Retail Transmission Connection Charge RSVA - Power (excluding Global Adjustment) 4 1588 RSVA - Power (excluding Global Adjustment) 4 1589 RSVA - Global Adjustment 4 1589 Disposition and Recovery/Refund of Regulatory Balances (2014) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2016) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2017) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2017) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) 3 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/Refund of Regulatory Balances (2018) 3 1595 Septimal Recovery/R	LV Variance Account	1550	-\$394,816.77	-\$0	
Variance WMS – Sub-account CBR Class A ⁵ Variance WMS – Sub-account CBR Class B ⁵ 1580 RSVA - Retail Transmission Network Charge RSVA - Retail Transmission Connection Charge RSVA - Power (excluding Global Adjustment) ⁴ RSVA - Global Adjustment ⁴ Disposition and Recovery/Refund of Regulatory Balances (2014) ³ Disposition and Recovery/Refund of Regulatory Balances (2015) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Dispos	Smart Metering Entity Charge Variance Account	1551	-\$391,166.12	\$0	
Variance WMS – Sub-account CBR Class B ⁵ RSVA - Retail Transmission Network Charge RSVA - Retail Transmission Network Charge RSVA - Power (excluding Global Adjustment) ⁴ RSVA - Global Adjustment ⁴ Disposition and Recovery/Refund of Regulatory Balances (2014) ³ Disposition and Recovery/Refund of Regulatory Balances (2016) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/	RSVA - Wholesale Market Service Charge ⁵	1580	-\$3,436,098.51	-\$0	Variance does not agree to RRR CBR balance in BV28. Please provide an explanation of t
RSVA - Retail Transmission Network Charge 1584 RSVA - Retail Transmission Connection Charge 1586 RSVA - Power (excluding Global Adjustment) ⁴ 1588 RSVA - Global Adjustment ⁴ 1589 RSVA - Flease provide an explanation of the variance in the tab 3 - Appendix A 1589 RSVA - Global Adjustment ⁴ 1589 RSVA - Global Adjustment ⁴ 1589 RSVA - Globa	Variance WMS – Sub-account CBR Class A ⁵	1580	-\$0.64	-\$1	
RSVA - Retail Transmission Connection Charge RSVA - Power (excluding Global Adjustment) ⁴ RSVA - Global Adjustment ⁴ Disposition and Recovery/Refund of Regulatory Balances (2014) ³ Disposition and Recovery/Refund of Regulatory Balances (2016) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2017) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2018) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ Disposition and Recovery/Refund of Regulatory Balances (2019) ³ So Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) -\$8,354,618.72	Variance WMS – Sub-account CBR Class B ⁵	1580	-\$627,306.82	\$1	
RSVA - Power (excluding Global Adjustment) ⁴ 1588 RSVA - Global Adjustment ⁴ 1589 Disposition and Recovery/Refund of Regulatory Balances (2014) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2015) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2016) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 So Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) \$3,008,463.07 \$1,141,631 \$169,940 \$10,		1584	-\$622,895.49	-\$1	
RSVA - Global Adjustment ⁴ Disposition and Recovery/Refund of Regulatory Balances (2014) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2015) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2016) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2016) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) \$1,919,514.10 \$169,940 Please provide an explanation of the variance in the tab 3 - Appendix A \$1,919,514.10 \$169,940 \$1,919,514.10 \$169,940 Please provide an explanation of the variance in the tab 3 - Appendix A \$1,919,514.10 \$169,940 Please provide an explanation of the variance in the tab 3 - Appendix A \$1,919,514.10 \$169,940 Please provide an explanation of the variance in the tab 3 - Appendix A \$1,919,514.10 \$1,919,51	RSVA - Retail Transmission Connection Charge	1586	-\$5,268,148.22	-\$0	
Disposition and Recovery/Refund of Regulatory Balances (2014) ³ 1595 1595 1595 1595 1595 1595 1595 159		1588	\$3,008,463.07	\$1,141,631	Please provide an explanation of the variance in the tab 3 - Appendix A
Disposition and Recovery/Refund of Regulatory Balances (2015) ³ 1595 So.000 So Disposition and Recovery/Refund of Regulatory Balances (2016) ³ 1595 So.000 So Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 So.000 So Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 So.000 So Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 So.000 So Obsposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 So.000 So Obsposition and Recovery/Refund of Regulatory Balances (2019) ³ 1595 So.000 So Obsposition and Recovery/Refund of Regulatory Balances (2019) ³ So Obsposition and Recovery/Refund of Regulatory Balances (2019) ³ So Obsposition and Recovery/Refund of Regulatory Balances (2019) ³ So Obsposition and Recovery/Refund of Regulatory Balances (2019) ³ So So So So So So So So So So So So So	,	1589	\$1,919,514.10	\$169,940	Please provide an explanation of the variance in the tab 3 - Appendix A
Disposition and Recovery/Refund of Regulatory Balances (2016) ³ 1595 S64,609.30 S0 Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 S501,014.09 S0 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 S697,991.70 S0 Disposition and Recovery/Refund of Regulatory Balances (2019) ³ 1595 S853 Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) S64,609.30 S0 -\$501,014.09 S0 -\$697,991.70 S0 -\$853	Disposition and Recovery/Refund of Regulatory Balances (2014) ³	1595	-\$95,343.60	-\$1	
Disposition and Recovery/Refund of Regulatory Balances (2017) ³ 1595 -\$501,014.09 -\$0 Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 -\$697,991.70 \$0 Disposition and Recovery/Refund of Regulatory Balances (2019) ³ 1595 -\$853 Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) -\$8,354,618.72 \$0	Disposition and Recovery/Refund of Regulatory Balances (2015) ³	1595	\$0.00	\$0	
Disposition and Recovery/Refund of Regulatory Balances (2018) ³ 1595 -\$697,991.70 \$0 Disposition and Recovery/Refund of Regulatory Balances (2019) ³ 1595 -\$853 Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) -\$8,354,618.72 \$0	Disposition and Recovery/Refund of Regulatory Balances (2016) ³	1595	\$64,609.30	\$0	
Disposition and Recovery/Refund of Regulatory Balances (2019) ³ 1595 Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) -\$8,354,618.72 \$0	Disposition and Recovery/Refund of Regulatory Balances (2017) ³	1595	-\$501,014.09	-\$0	
Not to be disposed of until a year after rate rider has expired and that balance has been audited Group 1 Sub-Total (including Account 1589 - Global Adjustment) -\$8,354,618.72 \$0	Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	-\$697,991.70	\$0	
Group 1 Sub-Total (including Account 1589 - Global Adjustment) -\$8,354,618.72 \$0	Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	-\$853	\$0	
	Not to be disposed of until a year after rate rider has expired and that balance has	been audited			
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment) -\$10,104,192.48 \$0	Group 1 Sub-Total (including Account 1589 - Global Adjustment)		-\$8,354,618.72	\$0	
	Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		-\$10,104,192.48	\$0	
RSVA - Global Adjustment 4 1589 \$1,749,573.76 \$0	RSVA - Global Adjustment 4	1589	\$1,749,573.76	\$0	

ferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filling

Hydro Ottawa Limited
EB-2019-0261
Exhibit 9
Tab 1
Schedule 1
Attachment A
UPDATED
May 5, 2020
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						2016										2017		
Account Descriptions	Account Number	Opening Principal Amounts as of Jan- 1-16	Transactions(1) Debit/ (Credit) during 2016	OEB-Approved Disposition during 2016		Closing Principal Balance as of Dec- 31-16	Opening Interest Amounts as of Jan-1-16	Interest Jan-1 to Dec-31-16	OEB-Approved Disposition during 2016	Interest Adjustments(1) during 2016	Closing Interest Amounts as of Dec-31-16	Opening Principal Amounts as of Jan- 1-17	Transactions(1) Debit/ (Credit) during 2017	OEB-Approved Disposition during 2017	Principal Adjustments(1) during 2017		Opening Interest mounts as of Jan-1-17	Interest Jan-1 to Dec-31-17
Group 2 Accounts																		
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	\$0		\$1,363,934	\$1,363,934	\$0	\$0		\$75,049	\$75,049	\$0	\$0				\$0	\$0	
Pole Attachment Revenue Variance ⁵	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Retail Service Charge Incremental Revenue ⁶	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	\$0	-\$502,482	-\$502,482		\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - Capital Charges	1508	\$0		-\$86	-\$86	\$0	\$0		\$1,385	\$1,385	\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - P & OPEB	1508	\$0	\$147,000	\$4,431,595	\$4,431,595	\$147,000	\$0				\$0	\$147,000	\$635,100			\$782,100	\$0	
Other Regulatory Assets - Sub-Account - East Energy Cost Defer Cost	1508	\$0			\$50,731		\$0			\$334	\$892	\$50,731				\$50,731	\$892	\$609
Other Regulatory Assets - Sub-Account - Pole Attachment Charge Revenues Variance Account	1508	\$0	\$225,388			\$225,388	\$0	\$1,139			\$1,139	\$225,388		\$225,388		-\$0	\$1,139	
Other Regulatory Assets - Sub-Account - Wireless Attachment Revenues Deferral Account	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - Y-Factor Variance Account	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - Gains/Losses from Sale of Existing Facilities Deferral Account	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - New Facilities Deferral Account	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - Gains and Loss on disposal of Fixed Assets Variance Account												ĺ						
disposal of Fixed Assets Variance Account	1508	\$0	\$548,080			\$548,080	\$0	\$44			\$44	\$548,080	\$350.661			\$898,741	\$44	\$8,264
Other Regulatory Assets - Sub-Account - Earnings Sharing Mechanism (ESM) Variance Account	1508	\$0 \$0	45-70,000			\$0,000	\$0				SC	\$540,000	-\$1,384,801			-\$1,384,801	\$0	
Other Regulatory Assets - Sub-Account - Connection Cost Recovery Agreement (CCRA) Payments Di		\$0				\$0	\$0				so	\$0	\$13,424			\$13,424	\$0	
Other Regulatory Assets - Sub-Account - Revenue Requirement Differential Variance Account related		\$0				\$0	\$0				SC	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - Efficiency Adjustment Mechanism Deferral Account	1508	\$0				\$0	\$0				so	\$0	-\$273.105			-\$273,105	\$0	
Other Regulatory Assets - Sub-Account - OEB Cost Assessment Variance	1508	SO SO	\$522.056			\$522.056	\$0	\$1.683			\$1,683	\$522.056	\$542,713			\$1,064,769	\$1,683	\$8,624
	1508	\$0				\$0	\$0				SC	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - RCVA Retail Incremental Revenue	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - STR Incremental Revenue	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Regulatory Assets - Sub-Account - OEB Rate Application Deferral Account	1508	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Retail Cost Variance Account - Retail ⁶	1518	\$0		-\$331,689	-\$371,176	-\$39,487	\$0	-\$435	-\$45,224	-\$45,403	-\$614	-\$39,487				-\$39,487	-\$614	-\$474
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	1522	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Misc. Deferred Debits	1525	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Retail Cost Variance Account - STR ⁶	1548	\$0		\$1,697,259	\$2,011,268	\$314,008	\$0		\$110,220	\$112,101	\$5,335	\$314,008				\$314,008	\$5,335	
Extra-Ordinary Event Costs	1572	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Deferred Rate Impact Amounts	1574	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
RSVA - One-time	1582	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Other Deferred Credits	2425	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Group 2 Sub-Total		\$0	\$940,042	\$6,658,531	\$7,486,266	\$1,767,776	\$0	\$6,444	\$141,430	\$143,467	\$8,480	\$1,767,776	-\$116,008	\$225,388		\$0 \$1,426,381	\$8,480	\$20,793
PILs and Tax Variance for 2006 and Subsequent Years	1592																	
(excludes sub-account and contra account below)		\$0				\$0	\$0				\$0	\$0				\$0	\$0	
PILs and Tax Variance for 2006 and Subsequent Years- Sub-account CCA Changes	1592	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
LRAM Variance Account ⁴	1568	\$0	\$933,405	-\$678,660	-\$149,982	\$1,462,082	\$0	\$5,816	-\$8,677	-\$7,202	\$7,290	\$1,462,082	\$1,080,681			\$2,542,763	\$7,290	\$21,748
Total including Account 1568		\$0	\$1,873,447	\$5,979,872	\$7,336,283	\$3,229,859	\$0	\$12,259	\$132,754	\$136,265	\$15,770	\$3,229,859	\$964,673	\$225,388	5	\$0 \$3,969,144	\$15,770	\$42,541
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential	1522	\$0				\$0	\$0				so	\$0				\$0	\$0	
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Contra Account	1522	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Renewable Generation Connection Capital Deferral Account	1531	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Renewable Generation Connection OM&A Deferral Account	1532	\$0		\$408,537	\$408,537	\$0	\$0		\$27,890	\$27,886	-\$4	\$0				\$0	-\$4	
Renewable Generation Connection Funding Adder Deferral Account	1533	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Smart Grid Capital Deferral Account	1534	\$0				\$0	\$0				\$0	\$0				\$0	\$0	
Smart Grid OM&A Deferral Account	1535	\$0		\$188,477	\$188,477	\$0	\$0 \$0		\$12,861	\$12,858	-\$3	\$0				\$0	-\$3	
Smart Grid Funding Adder Deferral Account	1536	\$0 \$0		-\$5 973 776	ec 072 770	\$0 \$0	\$0 \$0				\$0	\$0 \$0				\$0 \$0	\$0 \$0	
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs Meter Cost Deferral Account (MIST Meters) ³	1555 1557	SO SO		-\$5,973,776	-\$5,973,776	\$0 \$0	\$0 \$0				SC SC	\$0				\$0 \$0	\$0 \$0	
· '							•					**				-	40	
IFRS-CGAAP Transition PP&E Amounts Balance + Return Component Accounting Changes Under CGAAP Balance + Return Component	1575 1576	\$0 \$0				\$0 \$0						\$0 \$0				\$0 \$0		
Accounting Changes Under CGAAP Balance + Return Component	1576	\$0				\$0						\$0				\$0		

ferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filling

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									2018									
Account Descriptions	Account Number	OEB-Approved Disposition during 2017	Interest Adjustments(1) during 2017	Closing Interest Amounts as of Dec-31-17	Opening Principal Amounts as of Jan- 1-18	Transactions Debit/ (Credit) during 2018	OEB-Approved Disposition during 2018	Principal Adjustments(1) during 2018	Closing Principal Balance as of Dec- 31-18	Opening Interest Amounts as of Jan-1-18	Interest Jan-1 to Dec-31-18	OEB-Approved Disposition during 2018	Interest Adjustments(1) during 2018	Closing Interest Amounts as of Dec-31-18		ansactions Debit/ redit) during 2019	OEB-Approved Disposition during 2019	Principal Adjustments(1) during 2019
Group 2 Accounts																		
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508			\$0	\$0				\$0	\$0				\$0	\$0			
Pole Attachment Revenue Variance ⁵	1508			\$0	\$0				\$0	\$0				\$0	\$0			
Retail Service Charge Incremental Revenue ⁶	1508			\$0	\$0				\$0	\$0				\$0	\$0			
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508			\$0	\$0				\$0	\$0				\$0	\$0			
Other Regulatory Assets - Sub-Account - Capital Charges	1508			\$0	\$0				\$0	\$0				\$0	\$0			
Other Regulatory Assets - Sub-Account - P & OPEB	1508			\$0	\$782,100	-\$1,054,100			-\$272,000	\$0				\$0	-\$272,000	\$1,522,000		-\$5,681,59
Other Regulatory Assets - Sub-Account - East Energy Cost Defer Cost Other Regulatory Assets - Sub-Account - Pole Attachment Charge Revenues Variance Account	1508 1508	\$1 139		\$1,501 \$0	\$50,731 -\$0				\$50,731 -\$0	\$1,501 \$0	\$946			\$2,447	\$50,731 -\$0			
Other Regulatory Assets - Sub-Account - Pole Attachment Charge Revenues Variance Account Other Regulatory Assets - Sub-Account - Wireless Attachment Revenues Deferral Account	1508	\$1,139		\$0	-\$0 \$0				\$0	\$0				\$0	\$0			
Other Regulatory Assets - Sub-Account - Y-Factor Variance Account	1508			\$0	\$0				\$0	\$0				\$0	\$0	\$2,591,797		\$3,449,521.2
Other Regulatory Assets - Sub-Account - Gains/Losses from Sale of Existing Facilities Deferral Accou				\$0	\$0				\$0	\$0				\$0	\$0	-\$2,151,861		
Other Regulatory Assets - Sub-Account - New Facilities Deferral Account	1508			\$0	\$0				\$0	\$0				\$0	\$0	\$1,698,854		\$2,928,93
Other Regulatory Assets - Sub-Account - Gains and Loss on disposal of Fixed Assets Variance Account																		
disposal of Fixed Assets Variance Account	1508			\$8,309	\$898,741	\$462,120			\$1,360,861	\$8,309	\$13,463			\$21,772	\$1,360,861	\$2,182,739		
Other Regulatory Assets - Sub-Account - Earnings Sharing Mechanism (ESM) Variance Account	1508			\$0	-\$1,384,801	-\$1,976,394			-\$3,361,195	\$0	-\$25,818			-\$25,818	-\$3,361,195	-\$311,490		
Other Regulatory Assets - Sub-Account - Connection Cost Recovery Agreement (CCRA) Payments Di	1508			\$0	\$13,424	\$152,197			\$165,621	\$0	\$250			\$250	\$165,621	\$648,739		
Other Regulatory Assets - Sub-Account - Revenue Requirement Differential Variance Account related				\$0	\$0				\$0	\$0				\$0	\$0			
Other Regulatory Assets - Sub-Account - Efficiency Adjustment Mechanism Deferral Account	1508			\$0	-\$273,105	-\$285,892			-\$558,996	\$0	-\$5,092			-\$5,092	-\$558,996	-\$295,173		
Other Regulatory Assets - Sub-Account - OEB Cost Assessment Variance	1508			\$10,306	\$1,064,769 \$0	\$331,441			\$1,396,210	\$10,306	\$22,830			\$33,136	\$1,396,210	\$483,474		
Other Regulatory Assets - Sub-Account - RCVA Retail Incremental Revenue	1508 1508			\$0	\$0				\$0 \$0	\$0 \$0				\$0	\$0 \$0	-\$35,714		
Other Regulatory Assets - Sub-Account - NOVA retail incremental Revenue	1508			\$0	\$0				\$0	\$0				\$0	\$0	-\$977		
Other Regulatory Assets - Sub-Account - OEB Rate Application Deferral Account	1508			\$0	\$0				\$0	\$0				\$0	\$0	\$1,339,734		
Retail Cost Variance Account - Retail ⁶	1518			-\$1,088	-\$39.487				-\$39.487	-\$1,088	-\$736			-\$1.824	-\$39.487			
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	1522			\$0	\$0				\$0	\$0				\$0	\$0			
Misc. Deferred Debits	1525			\$0	\$0				\$0	\$0				\$0	\$0			
Retail Cost Variance Account - STR ⁶	1548			\$9,106	\$314,008				\$314,008	\$9,106	\$5,854			\$14,960	\$314,008			
Extra-Ordinary Event Costs	1572			\$0	\$0				\$0	\$0				\$0	\$0			
Deferred Rate Impact Amounts RSVA - One-time	1574 1582			\$0	\$0 \$0				\$0 \$0	\$0 \$0				\$0	\$0 \$0			
Other Deferred Credits	2425			\$0	\$0				\$0	\$0				\$0	\$0			
Group 2 Sub-Total		\$1,139	\$0	\$28,134	\$1,426,381	-\$2,370,628	\$0	\$	\$0 -\$944,247	\$28,134	\$11,697	\$0	\$0	\$39,831	-\$944,247	\$7,672,123	\$0	\$696,86
PILs and Tax Variance for 2006 and Subsequent Years																		
(excludes sub-account and contra account below)	1592			\$0	\$0				\$0	\$0				\$0	\$0			
PILs and Tax Variance for 2006 and Subsequent Years- Sub-account CCA Changes	1592			\$0	\$0				\$0	\$0				\$0	\$0	-\$2,298,669		-\$5,379,20
LRAM Variance Account ⁴	1568			\$29,038	\$2,542,763	\$481,726			\$3,024,490	\$29,038	\$47,408			\$76,446	\$3,024,490	\$1,321,949		-\$1,839,60
A SAME FAMILIES ACCOUNT	1300	i '		\$25,000	92,342,703	\$401,720			\$5,024,450	929,030	347,400			\$70,440	\$3,024,430	\$1,321,848		-\$1,030,00
Total including Account 1568		\$1,139	\$0	\$57,173	\$3,969,144	-\$1,888,901	\$0	\$	\$0 \$2,080,243	\$57,173	\$59,105	\$0	\$0	\$116,277	\$2,080,243	\$6,695,402	\$0	-\$6,521,94
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential	1522			\$0	\$0				\$0	\$0				\$0	\$0	-\$174,561		
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Contra Account	1522			\$0	\$0				\$0	\$0				\$0	\$0	\$174,561		
Renewable Generation Connection Capital Deferral Account Renewable Generation Connection OM&A Deferral Account	1531 1532			\$0	\$0 \$0				\$0 \$0	\$0 -\$4				\$0	\$0 \$0			
Renewable Generation Connection OM&A Deterral Account Renewable Generation Connection Funding Adder Deferral Account	1532 1533			-\$4 \$0	\$0				\$0 \$0	-\$4 \$0				-\$4 \$0	\$0			
Smart Grid Capital Deferral Account	1534			\$0	\$0				\$0	\$0				\$0	\$0			
Smart Grid OM&A Deferral Account	1535			-\$3	\$0				\$0	-\$3				-\$3	\$0			
Smart Grid Funding Adder Deferral Account	1536			\$0	\$0				\$0	\$0				\$0	\$0			
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs	1555			\$0	\$0				\$0	\$0				\$0	\$0			
Meter Cost Deferral Account (MIST Meters) ³	1557			\$0	\$0				\$0	\$0				\$0	\$0			
FRS-CGAAP Transition PP&E Amounts Balance + Return Component	1575			1	\$0				\$0						\$0			
Accounting Changes Under CGAAP Balance + Return Component	1576				\$0				\$0						\$0			

ferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filling

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		2019								2020			Projected Intere	est on Dec-31-19	Balances
Account Descriptions	Account Number	Closing Principal Balance as of Dec- 31-19	Opening Interest Amounts as of Jan-1-19	Interest Jan-1 to Dec-31-19	OEB-Approved Disposition during 2019	Interest Adjustments(1) during 2019	Closing Interest Amounts as of Dec-31-19	Principal Disposition during 2020 - instructed by OEB	Interest Disposition during 2020 - instructed by OEB	Closing Principal Balances as of Dec 31- 19 Adjusted for Dispositions during 2020	31-19 Adjusted for	Projected Interest from Jan 1, 2020 to December 31, 2020 on Dec 31 -19 balance adjusted for disposition during 2020 (2)	Projected Interest from January 1, 2021 to April 30, 2021 on Dec 31 -19 balance adjusted for disposition during 2020 (2)	Total Interest	Total Claim
Group 2 Accounts															
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	\$0	\$0				\$0			\$0		0		\$0	\$0.00
Pole Attachment Revenue Variance ⁵	1508	\$0	\$0				\$0			\$0		0		\$0	\$0.00
Retail Service Charge Incremental Revenue ⁶	1508	\$0	\$0				\$0			\$0		0		\$0	\$0.00
Other Regulatory Assets - Sub-Account - Incremental Capital Charges Other Regulatory Assets - Sub-Account - Capital Charges	1508 1508	\$0 \$0	\$0 \$0				\$0			\$0 \$0				\$0 \$0	\$0.00 \$0.00
Other Regulatory Assets - Sub-Account - Capital Charges Other Regulatory Assets - Sub-Account - P & OPEB	1508	-\$4,431,595	\$0				\$0			-\$4,431,595				\$0	\$0.00 -\$4.431.595.00
Other Regulatory Assets - Sub-Account - East Energy Cost Defer Cost	1508	\$50,731	\$2,447	\$1,140			\$3,587			\$50,731		7 \$1,106		\$4,693	\$55,423.79
Other Regulatory Assets - Sub-Account - Pole Attachment Charge Revenues Variance Account	1508	-\$0	\$0				\$0			-\$0	\$	0		\$0	\$0.00
Other Regulatory Assets - Sub-Account - Wireless Attachment Revenues Deferral Account	1508	\$0	\$0				\$0			\$0		-		\$0	\$0.00
Other Regulatory Assets - Sub-Account - Y-Factor Variance Account	1508	\$6,041,318	\$0				\$0	\$5,720,986		\$320,332				\$0	\$320,332.00
Other Regulatory Assets - Sub-Account - Gains/Losses from Sale of Existing Facilities Deferral Accou Other Regulatory Assets - Sub-Account - New Facilities Deferral Account	1508 1508	-\$2,151,861 \$4,627,793	\$0 \$0				\$0			-\$2,151,861 \$4,627,793	\$			\$0 \$0	-\$2,151,860.92 \$4,627,793.00
Other Regulatory Assets - Sub-Account - New Pacificles Deferral Account Other Regulatory Assets - Sub-Account - Gains and Loss on disposal of Fixed Assets Variance	1500	94,021,193	\$0				\$0			φ4,027,793	3	Ĭ		30	\$4,627,793.00
Account															
disposal of Fixed Assets Variance Account	1508	\$3,543,600	\$21,772	\$34,987			\$56,759			\$3,543,600				\$134,009	\$3,677,609.13
Other Regulatory Assets - Sub-Account - Earnings Sharing Mechanism (ESM) Variance Account Other Regulatory Assets - Sub-Account - Connection Cost Recovery Agreement (CCRA) Payments Di	1508 1508	-\$3,672,684 \$814,360	-\$25,818 \$250	-\$75,512 \$3,721			-\$101,330 \$3,971			-\$3,672,684 \$814,360	-\$101,33 \$3,97	0 -\$80,069 1 \$17,750		-\$181,395 \$21,724	-\$3,854,078.86 \$836,084.47
Other Regulatory Assets - Sub-Account - Revenue Requirement Differential Variance Account related		\$014,300	\$0	ψ5,721			\$0,871			\$014,500		0 \$17,750		\$21,724	\$0.00
Other Regulatory Assets - Sub-Account - Efficiency Adjustment Mechanism Deferral Account	1508	-\$854,169	-\$5,092	-\$14,180			-\$19,272			-\$854,169		2 -\$18,62		-\$37,893	-\$892,062.09
Other Regulatory Assets - Sub-Account - OEB Cost Assessment Variance	1508	\$1,879,684	\$33,136	\$35,799			\$68,935			\$1,879,684		5 \$40,977		\$109,912	\$1,989,595.75
	1508	\$0	\$0				\$0			\$0		0 \$0		\$0	\$0.00
Other Regulatory Assets - Sub-Account - RCVA Retail Incremental Revenue	1508 1508	-\$35,714 -\$977	\$0 \$0	-\$233 -\$7			-\$233			-\$35,714 -\$977	-\$23	3 -\$779 7 -\$2		-\$1,011 -\$28	-\$36,725.04 -\$1,004.99
Other Regulatory Assets - Sub-Account - STR Incremental Revenue Other Regulatory Assets - Sub-Account - OEB Rate Application Deferral Account	1508	\$1,339,734	\$0	\$12,424			\$12,424			\$1,339,734	\$12,42			-\$28 \$12,424	-\$1,004.99 \$0.00
Retail Cost Variance Account - Retail ⁶	1518	-\$39.487	-\$1.824	-\$887			-\$2,711			-\$39.487		1 -\$86		-\$3.572	-\$43.058.38
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	1522	\$0	\$0	-\$684		-\$5,719	-\$6,403			\$0		3		-\$6,403	-\$6,403.45
Misc. Deferred Debits	1525	\$0	\$0				\$0			\$0	\$	0		\$0	\$0.00
Retail Cost Variance Account - STR ⁶	1548	\$314,008	\$14,960	\$7,054			\$22,015			\$314,008		5 \$6,845	i	\$28,860	\$342,868.32
Extra-Ordinary Event Costs	1572 1574	\$0 \$0	\$0 \$0				\$0			\$0 \$0		0		\$0 \$0	\$0.00
Deferred Rate Impact Amounts RSVA - One-time	1574	\$0	\$0				\$0			\$0				\$0 \$0	\$0.00 \$0.00
Other Deferred Credits	2425	\$0	\$0				\$0			\$0				\$0	\$0.00
Group 2 Sub-Total		\$7,424,741	\$39,831	\$3,623	so	-\$5.719	\$37,735	\$5,720,986	\$0			5 \$43,586	\$0	\$81,321	\$432,917.74
		V1,121,111	400,001	\$0,020	•	\$0,710	\$07,700	\$0,720,000		ψ1,700,700	\$07,70	ψ·ισ,σσι	, 40	401,021	\$402,011.14
PILs and Tax Variance for 2006 and Subsequent Years (excludes sub-account and contra account below)	1592	\$0	\$0				\$0			\$0	s	0 \$0		\$0	\$0.00
PILs and Tax Variance for 2006 and Subsequent Years- Sub-account CCA Changes	1592	-\$7,677,876	\$0	-\$27,036			-\$27,036			-\$7,677,876				-\$194,414	-\$7,872,289.87
LRAM Variance Account ⁴	1568	\$2,506,838	\$76,446	\$114,498		\$35,570	\$226,513			\$2,506,838	\$226,51	3 \$54.649		\$281,162	\$2.788.000.39
		V =,===,===		*****		440,010						44 (14)			
Total including Account 1568		\$2,253,703	\$116,277	\$91,085	\$0	\$29,850	\$237,212	\$5,720,986	\$0	-\$3,467,283	\$237,21	2 -\$69,143	\$0	\$168,069	-\$4,651,371.74
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential	1522	-\$174,561	\$0				\$0			-\$174,561	\$	0		\$0	-\$174,560.99
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Contra Account	1522	\$174,561	\$0				\$0			\$174,561				\$0	\$174,560.99
Renewable Generation Connection Capital Deferral Account	1531	\$0	\$0				\$0			\$0		0		\$0	\$0.00
Renewable Generation Connection OM&A Deferral Account	1532 1533	\$0 \$0	-\$4 \$0				-\$4			\$0 \$0		4		- \$4 \$0	\$0.00
Renewable Generation Connection Funding Adder Deferral Account Smart Grid Capital Deferral Account	1533	\$0	\$0				\$0			\$0		0		\$0 \$0	\$0.00 \$0.00
Smart Grid OM&A Deferral Account	1535	\$0	-\$3				-\$3			\$0		3		-\$3	-\$3.00
Smart Grid Funding Adder Deferral Account	1536	\$0	\$0				\$0			\$0		0		\$0	\$0.00
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs	1555	\$0	\$0				\$0			\$0		0		\$0	\$0.00
Meter Cost Deferral Account (MIST Meters) ³	1557	\$0	\$0				\$0			\$0	\$	0		\$0	\$0.00
IFRS-CGAAP Transition PP&E Amounts Balance + Return Component	1575	\$0								\$0					\$0.00
Accounting Changes Under CGAAP Balance + Return Component	1576	\$0								\$0					\$0.00
												1			

pard

ferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filling

				ı	1
			2.1.7 RRR		
Account Descriptions	Account Number	Accounts to Dispose Yes/No	As of Dec 31-19	Variance RRR vs. 2019 Balance (Principal + Interest)	For Accounts 1508, 1522 and 1592, only show the total contr account that is reported in the RRR in the first row for that account in this tab
Group 2 Accounts					
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508		\$0.00	\$0	
Pole Attachment Revenue Variance ⁵	1508		\$0	\$0	
Retail Service Charge Incremental Revenue ⁶	1508			\$0	
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	Yes	\$0		
Other Regulatory Assets - Sub-Account - Capital Charges	1508	No	\$0		
Other Regulatory Assets - Sub-Account - P & OPEB	1508	Yes	\$1,250,000		
Other Regulatory Assets - Sub-Account - East Energy Cost Defer Cost	1508	Yes	\$54,318	-\$0	
Other Regulatory Assets - Sub-Account - Pole Attachment Charge Revenues Variance Account	1508	No No	\$0		
Other Regulatory Assets - Sub-Account - Wireless Attachment Revenues Deferral Account Other Regulatory Assets - Sub-Account - Y-Factor Variance Account	1508 1508	Yes	\$0 \$2,591,797		
Other Regulatory Assets - Sub-Account - 17-Pactor Variance Account Other Regulatory Assets - Sub-Account - Gains/Losses from Sale of Existing Facilities Deferral Account		Yes	-\$2,151,861	-\$3,449,521 \$0	
Other Regulatory Assets - Sub-Account - Gainsresses norm Sale of Existing Facilities Defend Account Other Regulatory Assets - Sub-Account - New Facilities Defend Account	1508	Yes	\$1,698,854	-\$2,928,939	
Other Regulatory Assets - Sub-Account - Gains and Loss on disposal of Fixed Assets Variance	1000	100	\$1,000,004	42,520,500	
Account		Yes			
disposal of Fixed Assets Variance Account	1508		\$3,600,359	\$0	
Other Regulatory Assets - Sub-Account - Earnings Sharing Mechanism (ESM) Variance Account	1508	Yes	-\$3,774,014	\$0	
Other Regulatory Assets - Sub-Account - Connection Cost Recovery Agreement (CCRA) Payments Di		Yes	\$818,331	\$0	
Other Regulatory Assets - Sub-Account - Revenue Requirement Differential Variance Account related		Yes	\$0	\$0 \$0	
Other Regulatory Assets - Sub-Account - Efficiency Adjustment Mechanism Deferral Account Other Regulatory Assets - Sub-Account - OEB Cost Assessment Variance	1508 1508	Yes Yes	-\$873,441 \$1,948.619	\$0	
Other Regulatory Assets - Sub-Account - OEB Cost Assessment Variance	1508	Yes	\$1,940,019	\$0	
Other Regulatory Assets - Sub-Account - RCVA Retail Incremental Revenue	1508	Yes	-\$35,946	\$0	
Other Regulatory Assets - Sub-Account - STR Incremental Revenue	1508	Yes	-\$984	\$0	
Other Regulatory Assets - Sub-Account - OEB Rate Application Deferral Account	1508	No	\$1,352,158	\$0	
Retail Cost Variance Account - Retail ⁶	1518		-\$42.198	so	
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	1522		-\$6,403	\$0	
Misc. Deferred Debits	1525	No	\$0	\$0	
Retail Cost Variance Account - STR ⁶	1548		\$336,023		
Extra-Ordinary Event Costs	1572		\$0		
Deferred Rate Impact Amounts	1574		\$0 \$0		
RSVA - One-time Other Deferred Credits	1582 2425	No	\$0		
Group 2 Sub-Total	2420		\$6,765,611		
·			\$0,765,611	-\$090,000	
PILs and Tax Variance for 2006 and Subsequent Years (excludes sub-account and contra account below)	1592		\$0	so.	
PILs and Tax Variance for 2006 and Subsequent Years- Sub-account CCA Changes	1592		-\$2,325,706	\$5,379,207	
LRAM Variance Account ⁴	1568		\$4,537,382	\$1,804,030	Please provide an explanation of the variance in the tab 3 - Appendix A
Total including Account 1568			\$8,977,286.84	\$6,486,372	
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential	1522		-\$174,561		
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Contra Account	1522 1522		-\$174,561 \$174,561	\$0 \$0	1
Renewable Generation Connection Capital Deferral Account	1531		\$174,301	S0	
Renewable Generation Connection OM&A Deferral Account	1532	No		\$4	Please provide an explanation of the variance in the tab 3 - Appendix A
Renewable Generation Connection Funding Adder Deferral Account	1533			\$0	l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Smart Grid Capital Deferral Account	1534			\$0	
Smart Grid OM&A Deferral Account	1535			\$3	Please provide an explanation of the variance in the tab 3 - Appendix A
Smart Grid Funding Adder Deferral Account	1536			\$0	1
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs	1555	No		\$0	1
Meter Cost Deferral Account (MIST Meters) ³	1557			\$0	
IFRS-CGAAP Transition PP&E Amounts Balance + Return Component	1575	No		so	
Accounting Changes Under CGAAP Balance + Return Component	1576	No		\$0	
0 - 0				1	

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Ontario Energy Board 2021 Deferral/Variance Account Workform

Accounts that produced a variance on the continuity schedule are listed below. Please provide a detailed explanation for each variance below.

·			T
Account Descriptions	Account Number	Variance RRR vs. 2019 Balance (Principal + Interest)	Explanation
LV Variance Account	1550	\$ (0.31)	General Comment: Adjustments were made in 2019 Principle Adjustments column BF. For more information please see UPDATED Exhibit 9-1-1: Current Deferral and Variance Accounts - Summary and UPDATED 9-1-3: Group 2 Accounts.
Smart Metering Entity Charge Variance Account	1551	\$ 0.42	
RSVA - Wholesale Market Service Charge5	1580	\$ (0.26)	
Variance WMS – Sub-account CBR Class A5	1580	\$ (0.78)	
Variance WMS – Sub-account CBR Class B5	1580	\$ 0.66	
RSVA - Retail Transmission Network Charge	1584	\$ (0.62)	
RSVA - Retail Transmission Connection Charge	1586	\$ (0.21)	
RSVA - Power (excluding Global Adjustment)4	1588	\$ 1,141,631.11	2019 true-up adjustments for amounts recorded in 2020.
RSVA - Global Adjustment 4	1589	\$ 169,940.34	2019 true-up adjustments for amounts recorded in 2020.
Disposition and Recovery/Refund of Regulatory Balances (2014)3	1595	\$ (0.54)	
Other Regulatory Assets - Sub-Account - P & OPEB	1508	\$ 5,681,595.00	\$4.4M being returned to customers to correct disposition in previous rate application plus ensuring \$1.25M balance at end of 2019 is not disposed.
Other Regulatory Assets - Sub-Account - East Energy Cost Defer Cost	1508	\$ (0.32)	
Other Regulatory Assets - Sub-Account - Y-Factor Variance Account	1508	\$ (3,449,521.26)	Added true-up adjustments related to 2019 and 2020 revenue requirement of Y Factor Account.
Other Regulatory Assets - Sub-Account - New Facilities Deferral Account	1508	\$ (2,928,938.84)	Inclusion of 2019 and 2020 revenue requirement for above \$66.0M on new facilities and related land.
PILs and Tax Variance for 2006 and Subsequent Years- Sub-account CCA Changes	1592	\$ 5,379,206.63	New Facilities and CCRA Regulatory Accounts. See Exhibit 9-1-4. Account 1592 FTES and Tax Variance.
LRAM Variance Account4	1568	\$ 1,804,030.42	Adjustment was made in columns BD and BI to reverse all LRAM recorded, while adjustment was added to column BF to balance to LRAM being requested, please see UPDATED Exhibit: 4-5-2 LRAM Variance Account.
Renewable Generation Connection OM&A Deferral Account	1532	\$ 4.00	
Smart Grid OM&A Deferral Account	1535	\$ 3.00	

Hydro Ottawa Limited
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In the green shaded cells, enter the data related to the proposed load forecast. Do not enter data for the MicroFit class

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			Į.	A	В			C	:	D=	A-C		E	F =B-C-E (deduct E if applicable)	
Rate Class (Enter Rate Classes in cells below as they appear on your current tariff of rates and charges)	Units	# of Customers	Total Metered <mark>kWh</mark>	Total Metered <mark>kW</mark>	Metered kWh for Non-RPP Customers ⁴	Metered kW for Non-RPP Customers ⁴	Distribution Revenue	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption (if applicable)	Total Metered kW less WMP consumption (if applicable)	Forecast Total Metered Test Year kWh for Full Year Class A Customers	Forecast Total Metered Test Year kWh for Transition Customers	Non-RPP Metered Consumption for Current Class B Customers (Non-RPP Consumption excluding WMP, Class A and Transition Customers' Consumption	1595 Recovery Share Proportion (2015) ¹
	kWh	316,346	2,252,937,000		42,569,870		116,105,934			2,252,937,000		-	-	42,569,870	32%
GENERAL SERVICE LESS THAN 50 KW	kWh	25,391	699,871,000		107,880,926		24,980,394			699,871,000	-	-	-	107,880,926	10%
GENERAL SERVICE 50 TO 1,499 KW	kW	3,120	2,817,707,000	6,815,129	2,214,111,713	5,353,235	45,024,235	33,515,390	61,907	2,784,191,610	6,753,222	183,984,714	86,052,883	1,910,558,727	40%
GENERAL SERVICE 1,500 TO 4,999 KW	kW	68	682,919,000	1,517,165	682,919,000	1,385,437	11,226,279	546,335	35,502	682,372,665	1,481,663	455,738,556	89,491,481	137,142,627	10%
LARGE USER	kW	11	574,292,000	1,052,901	574,292,000	1,052,901	7,605,145			574,292,000	1,052,901	574,292,000	-	-	8%
	kWh	3,321	13,602,000				585,526			13,602,000	-	-	-	-	0%
STANDBY POWER GENERAL SERVICE 50 TO 1,499 KW	kW									-		-	-	-	0%
	kW	3		7,440						-	7,440	-	-	-	0%
STANDBY POWER GENERAL SERVICE LARGE USE	kW									-		-	-	-	0%
SENTINEL LIGHTING	kW	55	47,000	132			5,002			47,000	132	-	-	-	0%
STREET LIGHTING	kW	62,806	22,107,000	61,590	22,107,000	66,897	1,127,262			22,107,000	61,590	-	-	22,107,000	0%
MICROFIT AND MICRO-NET METERING										-		-	-	-	
FIT										-	-	-	-	-	
HCI, RESOP, OTHER ENERGY RESOURCE										-		-	-	-	
										-	-	-	-	-	
										-		-	-	-	
										-	-	-	-	-	
										-		-	-	-	
										-		-	-	-	
										-		-	-	-	
Total		411,121	7,063,482,000	9,454,357	3,643,880,509	7,858,470	\$ 206,659,775	34,061,725	97,409	7,029,420,275	9,356,948	1,214,015,271	175,544,364	2,220,259,150	100%

¹ Account 1595 sub-accounts are to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

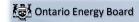
² The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

³ Input the allocation as determined in the LRAMVA model. The associated rate riders will be calculated in the EDDVAR model.

⁴ If a distributor uses the actual GA price to bill non-RPP Class B customers for an entire rate class, it must exclude these customers from the allocation of the GA balance and the calculation of the resulting rate riders. These rate classes are not to be charged/refunded the general GA rate rider as they did not contribute to the GA balance. If this is the case, this must be noted in the evidence and the proposed allocation methodology must be explained.

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			Exhibit 9
			Tab 1
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5 Recovery Share	1568 LRAM Variance Account	Number of Customers for	
	Class Allocation	Residential and	

1595 Recovery Share Proportion (2016) ¹	1568 LRAM Variance Account Class Allocation ³ (\$ amounts)	Number of Customers for Residential and GS<50 classes ²
32%	1,890,304	316,346
10%	838,488	25,391
40%	(240,066)	
10%	146,530	
8%	160,035	
0%	(4,131)	
0%		
0%		
0%		
0%		
0%	(3,160)	
100%		
	\$ 2,788,000	



		Amounts from Sheet 2	Allocator	RESIDENTIAL	GENERAL SERVICE LESS THAN 50 KW	GENERAL SERVICE 50 TO 1,499 KW	GENERAL SERVICE 1,500 TO 4,999 KW	LARGE USER	UNMETERED SCATTERED LOAD	STANDBY POWER GENERAL SERVICE 50 TO 1,499 KW
LV Variance Account	1550	(313,465)	kWh	(99,981)	(31,059)	(125,045)	(30,307)	(25,486)	(604)	0
Smart Metering Entity Charge Variance Account	1551	(77,882)	# of Customers	(72,095)	(5,787)	0	0	0	0	0
RSVA - Wholesale Market Service Charge RSVA - Retail Transmission Network Charge	1580 1584	(2,552,985)	kWh kWh	(818,234) (236,724)	(254,183) (73.538)	(1,011,179) (296,066)	(247,828) (71,757)	(208,575) (60,343)	(4,940) (1,429)	0
RSVA - Retail Transmission Connection Charge	1586	(4,728,044)	kWh	(1.508.036)	(468,469)	(1.886.073)	(457,122)	(384.411)	(9.105)	0
RSVA - Power (excluding Global Adjustment)	1588	757,478	kWh	242,772	75,417	300,020	73,531	61,885	1,466	0
RSVA - Global Adjustment	1589	5,849,215	Non-RPP kWh	112,149	284,209	5,033,317	361,299	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2014)	1595	0	%	0	0	0	0	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2015) Disposition and Recovery/Refund of Regulatory Balances (2016)	1595 1595	0 66,600	%	0 21,242	0 6,599	0 26.567	0 6.439	0 5.415	0 128	0
Disposition and Recovery/Refund of Regulatory Balances (2016)	1595	(505,116)	% %	(161,110)	(50.048)	(201,497)	(48.836)	(41.068)	(973)	0
Disposition and Recovery/Refund of Regulatory Balances (2018)	1595	0	%	0	0	0	0	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2019)	1595	0	%	0	0	0	0	0	0	0
Total of Group 1 Accounts (excluding 1589)		(8,095,597)		(2,632,165)	(801,068)	(3,193,272)	(775,879)	(652,583)	(15,456)	0
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	0	kWh	0	0	0	0	0	0	0
Pole Attachment Revenue Variance	1508	0	kWh	0	0	0	0	0	0	0
Retail Service Charge Incremental Revenue	1508	0	kWh	0	0	0	0	0	0	0
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	0	kWh	0	0	0	0	0	0	0
Other Regulatory Assets - Sub-Account - Capital Charges	1508	0	kWh	0 (4.440.400)	0	0	0	0	(8 534)	0
Other Regulatory Assets - Sub-Account - P & OPEB Other Regulatory Assets - Sub-Account - East Energy Cost Defer Cost	1508 1508	(4,431,595) 55,424	kWh kWh	(1,413,482) 17,678	(439,096) 5,492	(1,767,816) 22,109	(428,460) 5.359	(360,308) 4.506	(8,534) 107	0
Other Regulatory Assets - Sub-Account - East Energy Cost Defer Cost Other Regulatory Assets - Sub-Account - Pole Attachment Charge Revenues Variance Account	1508	55,424	kWh	17,678	5,492	22,109	5,359	4,506	107	0
Other Regulatory Assets - Sub-Account - Nice Attachment Charge Revenues Deferral Account	1508	0	kWh	0	0	0	0	0	0	0
Other Regulatory Assets - Sub-Account - Y-Factor Variance Account	1508	320,332	Distribution Rev.	179,969	38,721	69,790	17,401	11,788	908	0
Other Regulatory Assets - Sub-Account - Gains/Losses from Sale of Existing Facilities Deferral Acc		(2,151,861)	Distribution Rev.	(1,208,962)	(260,110)	(468,818)	(116,894)	(79,189)	(6,097)	0
Other Regulatory Assets - Sub-Account - New Facilities Deferral Account	1508	4,627,793	Distribution Rev.	2,599,994	559,393	1,008,241	251,393	170,304	13,112	0
Other Regulatory Assets - Sub-Account - Gains and Loss on disposal of Fixed Assets Variance Account		3,677,609	kWh	1,172,994	364,389	1,467,042	355,562	299,006	7,082	0
Other Regulatory Assets - Sub-Account - Earnings Sharing Mechanism (ESM) Variance Account	1508	(3,854,079)	kWh kWh	(1,229,280)	(381,874)	(1,537,438)	(372,624)	(313,353)	(7,422)	0
Other Regulatory Assets - Sub-Account - Connection Cost Recovery Agreement (CCRA) Payments Other Regulatory Assets - Sub-Account - Revenue Requirement Differential Variance Account relat		836,084	kWh	266,674 0	82,842 0	333,524 0	80,835 0	67,977 0	1,610 0	0
Other Regulatory Assets - Sub-Account - Revenue Regulation Mechanism Deferral Account	1508	(892.062)	kWh	(284.528)	(88.388)	(355.854)	(86.247)	(72.529)	(1,718)	0
Other Regulatory Assets - Sub-Account - OEB Cost Assessment Variance	1508	1,989,596	kWh	634.593	197.135	793.673	192,360	161.763	3,831	0
	1508	0	kWh	0	0	0	0	0	0	0
Other Regulatory Assets - Sub-Account - RCVA Retail Incremental Revenue	1508	(36,725)	kWh	(11,714)	(3,639)	(14,650)	(3,551)	(2,986)	(71)	0
Other Regulatory Assets - Sub-Account - STR Incremental Revenue	1508	(1,005)	kWh	(321)	(100)	(401)	(97)	(82)	(2)	0
Other Regulatory Assets - Sub-Account - OEB Rate Application Deferral Account	1508	0	kWh	0	0	0	0	0	0	0
Retail Cost Variance Account - Retail	1518 1522	(43,058) (6,403)	kWh kWh	(13,734) (2,042)	(4,266) (634)	(17,176) (2,554)	(4,163) (619)	(3,501) (521)	(83)	0
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges Misc. Deferred Debits	1522	(6,403)	kWh	(2,042)	(634)	(2,554)	(619)	(521)	0	0
Retail Cost Variance Account - STR	1548	342.868	kWh	109.360	33.972	136.774	33.150	27.877	660	0
Extra-Ordinary Event Costs	1572	0	kWh	0	0	0	0	0	0	0
Deferred Rate Impact Amounts	1574	0	kWh	0	0	0	0	0	0	0
RSVA - One-time	1582	0	kWh	0	0	0	0	0	0	0
Other Deferred Credits	2425	0	kWh	0	0	0	0	0	0	0
Total of Group 2 Accounts		432,918		817,199	103,836	(333,555)	(76,595)	(89,247)	3,372	0
PILs and Tax Variance for 2006 and Subsequent Years (excludes sub-account and contra account)	1592	0	kWh	0	0	0	0	0	0	0
PILs and Tax Variance for 2006 and Subsequent Years- Sub-account CCA Changes	1592	(7,872,290)	kWh	(2,510,911)	(780,010)	(3,140,350)	(761,117)	(640,052)	(15,160)	0
Total of Account 1592		(7,872,290)		(2,510,911)	(780,010)	(3,140,350)	(761,117)	(640,052)	(15,160)	0
LRAM Variance Account (Enter dollar amount for each class)	1568	2,788,000		1,890,304	838,488	(240,066)	146,530	160,035	(4,131)	0
Renewable Generation Connection OM&A Deferral Account	1532	0	kWh	0	0	0	0	0	0	0
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs	1555	0	kWh	0	0	0	0	0	0	0
T. 1. 1.0				(0.05		(0.105	(00.1	(80.7.7.7.		
Total of Group 1 Accounts (1550, 1551, 1584, 1586 and 1595)		(6,300,091) (1,795,507)		(2,056,703) (575,462)	(622,302) (178,766)	(2,482,113)	(601,582) (174,297)	(505,893)	(11,982)	0
Total of Account 1580 and 1588 (not allocated to WMPs) Account 1589 (allocated to Non-WMPs)		(1,795,507) 5,849,215		(575,462) 112,149	(178,766) 284,209	(711,159) 5,033,317	(174,297) 361,299	(146,690)	(3,474)	0
Account 1999 Junocated to 1991-1999 3)		0,043,210		112,145	204,203	0,000,011	301,233	<u> </u>	, , ,	V
Group 2 Accounts (including 1592, 1532, 1555)		(7,439,372)		(1,693,712)	(676,174)	(3,473,905)	(837,712)	(729,299)	(11,788)	0
IFRS-CGAAP Transition PP&E Amounts Balance + Return Component	1575		kWh	0	0	0	0	0	0	0
Accounting Changes Under CGAAP Balance + Return Component	1576	0	kWh	0	0	0	0	0	0	0
Total of Accounts 1575 and 1576		0		0	0	0	0	0	0	0

STANDBY POWER SENERAL SERVICE 1,500 TO 4,999 KW	STANDBY POWER GENERAL SERVICE LARGE USE	SENTINEL LIGHTING	STREET LIGHTING	MICROFIT AND MICRO-NET METERING	FIT	HCI, RESOP, OTHER ENERGY RESOURCE
0	0	(2)	(981)	0	0	0
0	0	0	0	0	0	0
0	0	(17)	(8,029)	0	0	0
0	0	(5)	(2,323)	0	0	0
0	0	(31)	(14,798)	0	0	0
0	0	5	2,382	0	0	0
0	0	0	58,240	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	208	0	0	0
0	0	(3)	(1,581)	0	0	0
0	0	0	0	0	0	0
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0	0	8	1,747	0	0	0
0	0	(52)	(11,738)	0	0	0
0	0	112	25,243	0	0	0
0	0	24	11,510	0	0	0
0	0	(26)	(12,062)	0	Ö	0
0	0			0		0
		6	2,617		0	
0	0	0	0	0	0	0
0	0	(6)	(2,792)	0	0	0
0	0	13	6,227	0	0	0
0	0	0	0	0	0	0
0	0	(0)	(115)	0	0	0
0	0	(0)	(3)	0	0	0
0	0	0	0	0	0	0
Ö	0	(0)	(135)	0	Ö	0
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		(0)	(20)			0
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0	0	(52)	(24,638)	0	0	0
0	0	0	(3,160)	0	0	0
0	0	0	0	0	0	0
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v	3			U	0	
	0	(44)	(40.474)		0	
0	0	(41)	(19,474)	0	0	0
0	0	(12)	(5,647)	0	0	0
0	0	0	58,240	0	0	0
0	0	(0)	(16,782)	0	0	0
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			0	0	0	0

Hydro Ottawa Limited
EB-2019-0261
Exhibit 9
Tab 1
Schedule 1
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Ontario Energy Board

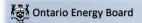
2021 Deferral/Variance Account Workform

1a	The year Account 1589 GA was last disposed	2018
1b	The year Account 1580 CBR Class B was last disposed	2018 Note that the sub-account was established in 2015.
2a	Did you have any customers who transitioned between Class A and Class B (transition customers) during the period the Account 1589 GA balance accumulated (i.e. from the year after the balance was last disposed (regardless of if the disposition was interim or final) to the current year requested for disposition?	(e.g. If you received approval to dispose of the GA variance account balance as at December 31, 2015, the period the GA variance accumulated would be 2016 to 2018.)
2b	Did you have any customers who transitioned between Class A and Class B (transition customers) during the period the Account 1580, sub-account CBR Class B balance accumulated (i.e. from the year after the balance was lat	(e.g. If you received approval to dispose of the CBR Class B balance as at December 33, 2016, the period the CBR Class B variance accumulated would be 2017 to 2018,)
3a	Enter the number of transition customer you had during the period the Account 1589 GA or Account 1580 CBR B balance accumulated	26

Transition Customers	s - Non-loss Adjusted Billing Determinants by Customer			
Customer	Rate Class		January to June	July to December
Customer 1	GENERAL SERVICE 1.500 TO 4.999 KW	kWh	5.174.685	4.669.004
		kW	9,815	9,320
		Class A/B	В	A
Customer 2	GENERAL SERVICE 50 TO 1,499 KW	kWh	1,103,864	1,106,999
		Class A/B	2,006 B	2,000
Customer 3	GENERAL SERVICE 50 TO 1,499 KW	kWh	3,686,930	3,619,953
		kW	10,338	11,325
		Class A/B	В	A
Customer 4	GENERAL SERVICE 50 TO 1,499 KW	kWh	3,177,580 7,249	3,276,212 7,265
		Class A/B	B 8	Α Α
Customer 5	GENERAL SERVICE 50 TO 1,499 KW	kWh	2,506,399	2,676,771
		kW	4,320	4,839
Customer 6	GENERAL SERVICE 1.500 TO 4.999 KW	Class A/B	B 6.212.956	A 8.302.824
Customer 6	GENERAL SERVICE 1,500 TO 4,999 KW	kWi	0,212,900	17.539
		Class A/B	Α	В В
Customer 7	GENERAL SERVICE 50 TO 1,499 KW	kWh	802,062	756,053
		kW	1,579	1,675
Customer 8	GENERAL SERVICE 50 TO 1,499 KW	Class A/B kWh	B 1,307,870	A 1,608,760
customer a	GENERAL SERVICE 30 TO 1,455 KW	kw	6,264	8,706
		Class A/B	В	A
Customer 9	GENERAL SERVICE 50 TO 1,499 KW	kWh	2,892,219	3,301,748
		kW	5,643	5,812
Customer 10	GENERAL SERVICE 50 TO 1,499 KW	Class A/B	B 2,014,128	A 2,140,440
customer 10	GENERAL SERVICE 30 TO 1,495 KW	kW	4,720	4,928
		Class A/B	В	A
Customer 11	GENERAL SERVICE 1,500 TO 4,999 KW	kWh	4,740,677	4,597,228
		kW	11,128	11,585
Customer 12	GENERAL SERVICE 1,500 TO 4,999 KW	Class A/B	A 3,386,687	B 3,101,420
Customer 12	GENERAL SERVICE 1,500 TO 4,555 KW	kW	9,197	8,428
		Class A/B	В	A
Customer 13	GENERAL SERVICE 50 TO 1,499 KW	kWh	954,612	997,190
		kW Class A/B	3,384 B	3,344 A
Customer 14	GENERAL SERVICE 50 TO 1,499 KW	KWh	3,710,606	3,934,595
Customer 24	CENTERIOR SERVICE SO TO 2,455 KM	kW	6,074	6,327
		Class A/B	В	A
Customer 15	GENERAL SERVICE 1,500 TO 4,999 KW	kWh	5,210,674	4,111,591
		kW Class A/B	13,164 B	10,735 A
Customer 16	GENERAL SERVICE 50 TO 1,499 KW	kWh	3,865,947	3,786,271
		kW	7,614	7,493
		Class A/B	В	A
Customer 17	GENERAL SERVICE 1,500 TO 4,999 KW	kWh	3,081,200	2,769,437 7.960
		Class A/B	9,150 B	7,960 A
Customer 18	GENERAL SERVICE 50 TO 1,499 KW	kWh	4,218,537	4,069,161
		kW	8,178	8,047
		Class A/B	В	A
Customer 19	GENERAL SERVICE 50 TO 1,499 KW	kWh	2,704,260 6,196	2,627,456 6,284
		Class A/B	0,190 R	6,284 A
Customer 20	GENERAL SERVICE 1,500 TO 4,999 KW	kWh	6,410,024	8,478,341
		kW	19,304	21,043
		Class A/B	A	В
Customer 21	GENERAL SERVICE 1,500 TO 4,999 KW	kWh	5,448,581 12,805	5,302,093 15,094
		Class A/B	B	A A
Customer 22	GENERAL SERVICE 1,500 TO 4,999 KW	kWh	4,386,785	4,107,274
		kW	8,625	7,803
C 1 22	CONTRACT COMMENT OF A 400 KM	Class A/B	B	A
Customer 23	GENERAL SERVICE 50 TO 1,499 KW	kWh	2,220,285 5,644	2,018,180 5,118
		Class A/B	В В	Α Α
Customer 24	GENERAL SERVICE 50 TO 1,499 KW	kWh	2,443,146	2,153,333
1		kW	6,573	5,812
0	GENERAL SERVICE 50 TO 1,499 KW	Class A/B	B 0.000 400	A
Customer 25	GENERAL SERVICE SU TO 1,499 KW	kWh kW	2,038,420 3,558	2,125,696 3,728
		Class A/B	В В	A
Customer 26	GENERAL SERVICE 50 TO 1,499 KW	kWh	2,959,456	3,247,747
		kW	5,560	6,056

Rate Classes with Class A Customers - Billing Determinants by Rate Class	Transition Customers (Total Class A and B Consumption)	Class A Customer for Full Year (Total Class A Consumption)		
Rate Class		Test Year Forecast	Test Year Forecast	2019
GENERAL SERVICE 50 TO 1,499 KW	kWh	86,052,883	183,984,714	183,984,714
	kW	193,656	366,345	366,345
GENERAL SERVICE 1,500 TO 4,999 KW	kWh	89,491,481	455,738,556	455,738,556
	kW	218,162	912,127	912,127
LARGE USER	kWh		574,292,000	602,082,184
	kW		1,052,901	1,071,914

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This tab allocates the GA balance to transition customers (i.e Class A customers who were former Class B customers and Class B customers who were former Class A customers) who contributed to the current GA balance. The tables below calculate specific amounts for each customer who made the change. The general GA rate rider to non-RPP customers is not to be charged to the transition customers that are allocated amounts in the table below. Consistent with prior decisions, distributors are generally expected to settle the amount through 12 equal adjustments to bills.

Year Account 1589 GA Balance Last Disposed

2018

Allocation of total Non-RPP Consumption (kWh) between Current Class B and Class A/B Transition Customers

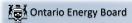
		Total	2019
Non-RPP Consumption Less WMP Consumption	Α	4,040,217,304	4,040,217,304
Less Class A Consumption for Partial Year Class A Customers	В	84,871,040	84,871,040
Less Consumption for Full Year Class A Customers	С	1,241,805,454	1,241,805,454
Total Class B Consumption for Years During Balance Accumulation	D = A-B-C	2,713,540,810	2,713,540,810
All Class B Consumption for Transition Customers	E	90,673,325	90,673,325
Transition Customers' Portion of Total Consumption	F = E/D	3.34%	

Allocation of Total GA Balance \$

Total GA Balance	G	\$	6,051,424
Transition Customers Portion of GA Balance	H=F*G	\$	202,209
GA Balance to be disposed to Current Class B Customers through Rate Rider	I=G-H	s	5.849.215

Allocation of GA Balances to Class A/B Transition Customers

# of Class A/B Transition Customers	26					
Customer	Total Metered Consumption (kWh) for Transition Customers During the Period When They Were Class B Customers	Metered Consumption (kWh) for Transition Customers During the Period When They Were Class B Customers in 2019	% of kWh	Customer Specific GA Allocation for the Period When They Were a Class B customer	Eq	onthly Jual Syments
Customer 1	5,174,685	5,174,685	5.71%	\$ 11,540	\$	962
Customer 2	1,103,864	1,103,864	1.22%	\$ 2,462	\$	205
Customer 3	3,686,930	3,686,930	4.07%	\$ 8,222	\$	685
Customer 4	3,177,580	3,177,580	3.50%	\$ 7,086	\$	591
Customer 5	2,506,399	2,506,399	2.76%	\$ 5,589	\$	466
Customer 6	8,302,824	8,302,824	9.16%	\$ 18,516	\$	1,543
Customer 7	802,062	802,062	0.88%	\$ 1,789	\$	149
Customer 8	1,307,870	1,307,870	1.44%	\$ 2,917	\$	243
Customer 9	2,892,219	2,892,219	3.19%	\$ 6,450	\$	537
Customer 10	2,014,128	2,014,128	2.22%	\$ 4,492	\$	374
Customer 11	4,597,228	4,597,228	5.07%	\$ 10,252	\$	854
Customer 12	3,386,687	3,386,687	3.74%	\$ 7,553	\$	629
Customer 13	954,612	954,612	1.05%	\$ 2,129	\$	177
Customer 14	3,710,606	3,710,606	4.09%	\$ 8,275	\$	690
Customer 15	5,210,674	5,210,674	5.75%	\$ 11,620	\$	968
Customer 16	3,865,947	3,865,947	4.26%	\$ 8,621	\$	718
Customer 17	3,081,200	3,081,200	3.40%	\$ 6,871	\$	573
Customer 18	4,218,537	4,218,537	4.65%	\$ 9,408	\$	784
Customer 19	2,704,260	2,704,260	2.98%	\$ 6,031	\$	503
Customer 20	8,478,341	8,478,341	9.35%	\$ 18,907	\$	1,576
Customer 21	5,448,581	5,448,581	6.01%	\$ 12,151	\$	1,013
Customer 22	4,386,785	4,386,785	4.84%	\$ 9,783	\$	815
Customer 23	2,220,285	2,220,285	2.45%	\$ 4,951	\$	413
Customer 24	2,443,146	2,443,146	2.69%	\$ 5,448	\$	454
Customer 25	2,038,420	2,038,420	2.25%	\$ 4,546	\$	379
Customer 26	2,959,456	2,959,456	3.26%	\$ 6,600	\$	550
Total	90,673,325	90,673,325	100.00%	\$ 202,209		



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This tab allocates the CBR Class B balance to transition customers (i.e Class A customers who were former Class B customers and Class B customers who were former Class A customers) who contributed to the current CBR Class B balance. The tables below calculate specific amounts for each customer who made the change. The general CBR Class B rate rider is not to be charged to the transition customers that are allocated amounts in the table below. Consistent with prior decisions, distributors are generally expected to settle the amount through 12 equal adjustments to bills.

Year Account 1580 CBR Class B was Last Disposed	2018	

Allocation of Total Consumption (kWh) between Current Class B and Class A/B Transition Customers

		Total	2019
Total Consumption Less WMP Consumption	A	7,235,958,833	7,235,958,833
Less Class A Consumption for Partial Year Class A Customers	В	84,871,040	84,871,040
Less Consumption for Full Year Class A Customers	С	1,241,805,454	1,241,805,454
Total Class B Consumption for Years During Balance			F 000 000 000
Accumulation	D = A-B-C	5,909,282,339	5,909,282,339
All Class B Consumption for Transition Customers	E	90,673,325	90,673,325
Transition Customers' Portion of Total Consumption	F = E/D	1.53%	

Allocation of Total CBR Class B Balance \$

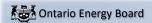
Total CBR Class B Balance	G	-\$	492,601
Transition Customers Portion of CBR Class B Balance	H=F*G	-\$	7,559
CBR Class B Balance to be disposed to Current Class B Customers			
through Rate Rider	I=G-H	-\$	485,042

Allocation of	CBR Class	B Balances	to Transition	Customers

# of Class A/B Transition Customers	26					
	Total Metered Class B Consumption (kWh) for Transition			Customer Specific CBR Class B Allocation for		
		Customers During the Period			Monthly	Revised Monthly
Customer	When They were Class B Customers	When They were Class B Customers in 2019	% of kWh		Equal Payments	
Customer 1	5,174,685	5,174,685	5.71%		-\$ 36	
Customer 2	1.103.864	1.103.864	1.22%			\$ -
Customer 3	3,686,930	3,686,930	4.07%			\$ -
Customer 4	3,177,580	3,177,580	3.50%			\$ -
Customer 5	2,506,399	2,506,399	2.76%			\$ -
Customer 6	8,302,824	8,302,824	9.16%			\$ -
Customer 7	802,062	802,062	0.88%			\$ -
Customer 8	1,307,870	1,307,870	1.44%		-\$ 0 -\$ 9	
Customer 9	2,892,219	2,892,219	3.19%		-\$ 20	
Customer 10	2,014,128	2,014,128	2.22%			\$ -
Customer 11	4,597,228	4,597,228	5.07%			\$ -
Customer 12	3.386.687	3,386,687	3.74%			\$ -
Customer 13	954,612	954,612	1.05%			\$ -
Customer 14	3,710,606	3,710,606	4.09%		-\$ 26	
Customer 15	5.210.674	5,210,674	5.75%		-\$ 36	
Customer 16	3,865,947	3,865,947	4.26%	-\$ 322	-\$ 27	
Customer 17	3,081,200	3,081,200	3.40%		-\$ 21	\$ -
Customer 18	4,218,537	4,218,537	4.65%			
Customer 19	2,704,260	2,704,260	2.98%		-\$ 19	
Customer 20	8,478,341	8,478,341	9.35%			\$ -
Customer 21	5,448,581	5,448,581	6.01%		-\$ 38	\$ -
Customer 22	4,386,785	4,386,785	4.84%	-\$ 366	-\$ 30	\$ -
Customer 23	2,220,285	2,220,285	2.45%		-\$ 15	\$ -
Customer 24	2,443,146	2,443,146	2.69%		-\$ 17	
Customer 25	2,038,420	2,038,420	2.25%			\$ -
Customer 26	2,959,456	2,959,456	3.26%	-\$ 247		\$ -
Total	90,673,325	90,673,325	100.00%			

If the CBR Class B rate rider calculated in tab 7 rounds to zero at the fourth decimal place for one or more rate classes, the entire balance in Account 1580 CBR Class B, including the amount allocated to transition customers will be transferred to Account 1580 WMS and disposed through the general purpose Group 1 rate riders



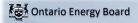


No input Required in this tab. The purpose of this tab is to calculate the billing determinants for CBR rate riders for all current Class B customers who did not transition between Class A and B in the period since the Account 1580, sub-account CBR Class B balance accumulated.

The Year the Account 1580 CBR Class B was Last Disposed.

RESIDENTIAL
GENERAL SERVICE LESS THAN 50 KW
GENERAL SERVICE 50 TO 1,499 KW
GENERAL SERVICE 1,500 TO 4,999 KW
LARGE USER
UNMETERED SCATTERED LOAD
STANDBY POWER GENERAL SERVICE 50 TO 1,499 KW
STANDBY POWER GENERAL SERVICE 1,500 TO 4,999 KW
STANDBY POWER GENERAL SERVICE LARGE USE
SENTINEL LIGHTING
STREET LIGHTING
MICROFIT AND MICRO-NET METERING
FIT
HCI, RESOP, OTHER ENERGY RESOURCE

	Total Metered Forecast Consumption Minus WMP				Forecast Total Metered Test Year kWh for Transition Customers		Metered Consumption for Current Class B Customers (Total Consumption LESS WMP, Class A and Transition Customers' Consumption)		% of total kWh
	kWh	kW	kWh	kW	kWh	kW	kWh	kW	
	2,252,937,000	_	0	0	0	0	2,252,937,000	-	40%
	699,871,000	-	0	0	0	0	699,871,000	-	12%
	2,784,191,610	6,753,222	183,984,714	366,345	86,052,883	193,656	2,514,154,013	6,193,221	45%
	682,372,665	1,481,663	455,738,556	912,127	89,491,481	218,162	137,142,627	351,374	2%
	574,292,000	1,052,901	574,292,000	1,052,901	0	0	-	-	0%
	13,602,000	-	0	0	0	0	13,602,000	-	0%
	-	-	0	0	0	0	-	-	0%
	-	7,440	0	0	0	0	-	7,440	0%
	-	-	0	0	0	0	-	-	0%
	47,000	132	0	0	0	0	47,000	132	0%
	22,107,000	61,590	0	0	0	0	22,107,000	61,590	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
	-	-	0	0	0	0	-	-	0%
Total	7,029,420,275	9,356,948	1,214,015,271	2,331,373	175,544,364	411,818	5,639,860,641	6,613,758	100%



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Please indicate the Rate Rider Recovery Period (in months)

Rate Rider Calculation for Group 1 Deferral / Variance Accounts Balances (excluding Global Adj.)

1550, 1551, 1584, 1586, 1595, 1580 and 1588 per instru	CITURS			
Rate Class		kW / kWh / # of	Allocated Group 1	Rate Rider for
(Enter Rate Classes in cells below)	Units	Customers	Balance (excluding	Deferral/Variance
(=			1589)	Accounts
RESIDENTIAL	kWh	2,252,937,000	-\$ 2,632,165	- 0.0012
GENERAL SERVICE LESS THAN 50 KW	kWh	699,871,000	-\$ 801,068	- 0.0011
GENERAL SERVICE 50 TO 1,499 KW	kW	6,815,129	-\$ 2,482,113	- 0.3642
GENERAL SERVICE 1,500 TO 4,999 KW	kW	1,517,165	-\$ 601,582	- 0.3965
LARGE USER	kW	1,052,901	-\$ 652,583	- 0.6198
UNMETERED SCATTERED LOAD	kWh	13,602,000	-\$ 15,456	- 0.0011
STANDBY POWER GENERAL SERVICE 50	kW	-	\$ -	-
STANDBY POWER GENERAL SERVICE 1,5	kW	7,440	\$ -	-
STANDBY POWER GENERAL SERVICE LA	kWh	-	\$ -	-
SENTINEL LIGHTING	kW	132	-\$ 53	- 0.4046
STREET LIGHTING	kW	61,590	-\$ 25,121	- 0.4079
MICROFIT AND MICRO-NET METERING		-	\$ -	-
FIT		-	\$ -	-
HCI, RESOP, OTHER ENERGY RESOURCE		-	\$ -	-
		-	\$ -	-
		-	\$ -	-
	·	-	\$ -	-
		-	\$ -	-
		-	\$ -	-
		-	\$ -	-
Total			-\$ 7,210,142	

Rate Rider Calculation for Group 1 Deferral / Variance Accounts Balances (excluding Global Adj.) - NON-WMP

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers	Allocated Group 1 Balance - Non-WMP	Rate Rider for Deferral/Variance Accounts	
RESIDENTIAL	kWh	2,252,937,000	\$ -	-	
GENERAL SERVICE LESS THAN 50 KW	kWh	699,871,000	\$ -	-	
GENERAL SERVICE 50 TO 1,499 KW	kW	6,753,222	-\$ 711,159	- 0.1053	
GENERAL SERVICE 1,500 TO 4,999 KW	kW	1,481,663	-\$ 174,297	- 0.1176	
LARGE USER	kW	1,052,901	\$ -	-	
UNMETERED SCATTERED LOAD	kWh	13,602,000	\$ -	-	
STANDBY POWER GENERAL SERVICE 50	kW	-	\$ -	-	
STANDBY POWER GENERAL SERVICE 1,5	kW	7,440	\$ -	-	
STANDBY POWER GENERAL SERVICE LA	kWh	-	\$ -	-	
SENTINEL LIGHTING	kW	132	\$ -	-	
STREET LIGHTING	kW	61,590	\$ -	-	
MICROFIT AND MICRO-NET METERING		-	\$ -	-	
FIT		-	\$ -	-	
HCI, RESOP, OTHER ENERGY RESOURCE			\$ -	-	
		-	\$ -	-	
		-	\$ -	-	
			\$ -	-	
		-	\$ -	-	
			\$ -	-	
			\$ -	-	
Total			-\$ 885,456		

Only for rate classes with WMP customers are the Deferral/Variance Account Rate Riders for Non-WMP calculated separately in the table above. For all rate classes without WMP customers, balances in Accounts 1580 and 1588 are included in Deferral/Variance Account Rate Riders calculated in the first table above and disposed through a combined Deferral/Variance Account and Rate Rider.

Rate Rider Calculation for Account 1580, sub-account CBR Class B

1580, Sub-account CBR Class B						
Rate Class		kW / kWh / # of	Allocated Sub-		Revised Rate Rider for	
(Enter Rate Classes in cells below)	Units	Customers		account 1580 CBR	Deferral/Variance	If the rate rider calculated rounds to zero at the fourth decimal
			Class B Balance	Class B	Accounts	place in one or more rate classes (except for the Standby rate
RESIDENTIAL	kWh	2,252,937,000			*	
GENERAL SERVICE LESS THAN 50 KW	kWh	699,871,000		- 0.0000	*	class), the entire balance in Account 1580, Sub-account CBR
GENERAL SERVICE 50 TO 1,499 KW	kWh	2,514,154,013		- 0.0000	\$	Class B will be added to the Account 1580 WMS and disposed
GENERAL SERVICE 1,500 TO 4,999 KW	kWh	137,142,627	-\$ 11,795	- 0.0000	\$ -	through the applicable general DVA rate rider.
LARGE USER	kWh	-	\$ -	-	\$ -	
UNMETERED SCATTERED LOAD	kWh	13,602,000	-\$ 1,170	- 0.0000	\$ -	
STANDBY POWER GENERAL SERVICE 50	kWh	-	\$ -	-	\$ -	
STANDBY POWER GENERAL SERVICE 1,5	kWh	-	\$ -	-	\$ -	
STANDBY POWER GENERAL SERVICE LA	kWh	-	\$ -	-	\$ -	
SENTINEL LIGHTING	kWh	47,000	-\$ 4	- 0.0000	\$ -	
STREET LIGHTING	kWh	22,107,000	-\$ 1,901	- 0.0000	\$ -	
MICROFIT AND MICRO-NET METERING	kWh	-	\$ -	-	\$	
FIT	kWh	-	\$ -	-	\$ -	
HCI, RESOP, OTHER ENERGY RESOURCE	kWh	-	\$ -	-	\$	
		-	\$ -	-	\$ -	
		-	\$ -	-	\$	
		-	\$ -	-	\$	
		-	\$ -	-	\$	
		-	\$ -	-	\$	
	·	-	\$ -	-	\$ -	
Total			-\$ 485,042			

Rate rider calculated separately only if Class A customers exist during the period the balance accumulated

Rate Rider Calculation for RSVA - Power - Global Adjustment

Balance of Account 1589 Allocated to Non-WMPs

Balance of Account 1589 Allocated to Non-WMPs				1
Rate Class (Enter Rate Classes in cells below)	Units	kWh	Allocated Global Adjustment Balance	Rate Rider for RSVA - Power - Global Adjustment
RESIDENTIAL	kWh	42,569,870	\$ 112,149	0.0026
GENERAL SERVICE LESS THAN 50 KW	kWh	107,880,926	\$ 284,209	0.0026
GENERAL SERVICE 50 TO 1,499 KW	kWh	1,910,558,727	\$ 5,033,317	0.0026
GENERAL SERVICE 1,500 TO 4,999 KW	kWh	137,142,627	\$ 361,299	0.0026
LARGE USER	kWh	-	\$ -	-
UNMETERED SCATTERED LOAD	kWh	-	\$ -	-
STANDBY POWER GENERAL SERVICE 50	kWh	-	\$ -	-
STANDBY POWER GENERAL SERVICE 1,5	kWh	-	\$ -	-
STANDBY POWER GENERAL SERVICE LA	kWh	-	\$ -	-
SENTINEL LIGHTING	kWh	-	\$ -	-
STREET LIGHTING	kWh	22,107,000	\$ 58,240	0.0026
MICROFIT AND MICRO-NET METERING	kWh	-	\$ -	-
FIT	kWh	-	\$ -	-
HCI, RESOP, OTHER ENERGY RESOURCE	kWh	-	\$ -	-
	kWh		\$ -	-
	kWh	-	\$ -	-
	kWh	-	\$ -	-
	kWh	-	\$ -	-
	kWh	-	\$ -	-
	kWh	-	\$ -	-
Total			\$ 5,849,215	· ·

Rate Rider Calculation for Group 2 Accounts

Rate Class (Enter Rate Classes in cells below)	Units	# of Customers	Allocated Group 2 Balance	Rate Rider for Group 2 Accounts
RESIDENTIAL	# of Customers	316,346	-\$ 1,693,712	-\$ 0.45
GENERAL SERVICE LESS THAN 50 KW	kWh	699,871,000	-\$ 676,174	-\$ 0.0010
GENERAL SERVICE 50 TO 1,499 KW	kW	6,815,129	-\$ 3,473,905	-\$ 0.5097
GENERAL SERVICE 1,500 TO 4,999 KW	kW	1,517,165	-\$ 837,712	-\$ 0.5522
LARGE USER	kW	1,052,901	-\$ 729,299	-\$ 0.6927
UNMETERED SCATTERED LOAD	kWh	13,602,000	-\$ 11,788	-\$ 0.0009
STANDBY POWER GENERAL SERVICE 50	TO 1,499 KW	-	\$ -	\$ -
STANDBY POWER GENERAL SERVICE 1,5	500 TO 4,999 KW	-	\$ -	\$ -
STANDBY POWER GENERAL SERVICE LA	RGE USE		\$ -	\$ -
SENTINEL LIGHTING	kW	132	-\$ 0	-\$ 0.0033
STREET LIGHTING	kW	61,590	-\$ 16,782	-\$ 0.2725
MICROFIT AND MICRO-NET METERING			\$ -	\$ -
FIT			\$ -	\$ -
HCI, RESOP, OTHER ENERGY RESOURCE		-	\$ -	\$ -
			\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
Total			-\$ 7,439,372	

Rate Rider Calculation for Accounts 1575 and 1576

Please indicate the Rate Rider Recovery Period (in months)

Rate Class (Enter Rate Classes in cells below)	Units	# of Customers	Allocated Accounts 1575 and 1576 Balances	Rate Rider for Accounts 1575 and 1576
RESIDENTIAL		-	\$ -	-
GENERAL SERVICE LESS THAN 50 KW		-	\$ -	-
GENERAL SERVICE 50 TO 1,499 KW		-	\$ -	-
GENERAL SERVICE 1,500 TO 4,999 KW		-	\$ -	-
LARGE USER		-	\$ -	-
UNMETERED SCATTERED LOAD		-	\$ -	-
STANDBY POWER GENERAL SERVICE 50	TO 1,499 KW	-	\$ -	-
STANDBY POWER GENERAL SERVICE 1,	500 TO 4,999 KW	-	\$ -	-
STANDBY POWER GENERAL SERVICE LA	RGE USE	-	\$ -	-
SENTINEL LIGHTING		-	\$ -	-
STREET LIGHTING		-	\$ -	-
MICROFIT AND MICRO-NET METERING		-	\$ -	-
FIT		-	\$ -	-
HCI, RESOP, OTHER ENERGY RESOURCE		-	\$ -	-
		-	\$ -	-
		-	\$ -	-
		-	\$ -	
			\$ -	
		-	\$ -	
			\$ -	-
Total			\$ -	

Rate Rider Calculation for Accounts 1568

Please indicate the Rate Rider Recovery Period (in months)

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers		Allocated Account 1568 Balance	Rate Rider for Account 1568
RESIDENTIAL	# of Customers	316,346	\$	1,890,304	0.4980
GENERAL SERVICE LESS THAN 50 KW	kWh	699,871,000	\$	838,488	0.0012
GENERAL SERVICE 50 TO 1,499 KW	kW	6,815,129	-\$	240,066	- 0.0352
GENERAL SERVICE 1,500 TO 4,999 KW	kW	1,517,165	\$	146,530	0.0966
LARGE USER	kW	1,052,901	\$	160,035	0.1520
UNMETERED SCATTERED LOAD	kWh	13,602,000	-\$	4,131	- 0.0003
STANDBY POWER GENERAL SERVICE 50	TO 1,499 KW	-	\$	-	-
STANDBY POWER GENERAL SERVICE 1,5	500 TO 4,999 KW	-	\$	-	
STANDBY POWER GENERAL SERVICE LA	RGE USE	-	\$	-	-
SENTINEL LIGHTING	kW	132	\$	-	
STREET LIGHTING	kW	61,590	-\$	3,160	- 0.0513
MICROFIT AND MICRO-NET METERING		-	\$	-	
FIT		-	\$	-	
HCI, RESOP, OTHER ENERGY RESOURCE	Ė	-	\$	-	
		-	\$	-	
		-	\$	-	
		-	\$	-	•
		-	\$	-	•
·		-	\$	-	
		-	\$	-	•
Total			\$	2,788,000	

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Rate riders for Global Adjustment is to be calculated on the basis of kWh for all classes.

As per the Board's letter issued July 16, 2015 or regarding the implementation of the transitior distribution charges for residential customers, R for group 2 accounts are to be on a per custome choose "# of customers" for the Resident

As per the Board's letter issued July 16, 2015 regarding the implementation of the transit distribution charges for residential customers, F group 2 accounts, including Accounts 1575 and per customer basis. Please choose "a of cus Residential class.



Hydro Ottawa Limited EB-2019-0261 Exhibit 9 Tab 1 Schedule 2 UPDATED May 5, 2020 Page 1 of 7

UPDATED GROUP 1 ACCOUNTS

2

1

3 1. INTRODUCTION

4 As per the OEB's report on the *Electricity Distributors' Deferral and Variance Account Review*5 *Initiative* ("EDDVAR Report"), Group 1 accounts include account balances that are cost
6 pass-through and accounts whose original balances were approved by the OEB in a previous
7 proceeding.¹ Please see Table 1 in UPDATED Exhibit 9-1-1: Summary of Current Deferral and
8 Variance Accounts for a list of Hydro Ottawa's active Group 1 deferral and variance accounts
9 ("DVAs").

10

11 2. ENERGY SALES AND COST OF POWER EXPENSE BALANCES

The sale of energy and the purchase of power are pass-through transactions. Hydro Ottawa records monthly retail settlement variance entries related to any difference between the Power Recovery Revenue and Purchased Power.

15

- 16 Upon the adoption of International Financial Reporting Standards (and specifically, of IFRS 14 -17 Regulatory Deferrals Accounts ["IFRS 14"]), the impact of regulatory deferral account balances, 18 including retail settlement variance accounts, are presented as "Net movements in regulatory
- 19 balances, net of tax" on Hydro Ottawa's statements of profit and loss. IFRS 14 permits an entity
- 20 to continue to account for regulatory deferral account balances in accordance with its previous
- 21 Canadian Generally Accepted Accounting Principles ("CGAAP"). However, the presentation of
- 22 regulatory accounts on the Financial Statement has changed from CGAAP.

23

- 24 Totals for Energy Sales ("Power Recovery Revenue") and Cost of Power ("Purchased Power"),
- 25 per the Uniform System of Accounts ("USofA"), are reconciled to the audited financial
- 26 statements in Table 1 below.

Ontario Energy Board, Report of the Board: Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR), EB-2008-0046 (July 31, 2009).



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1 Table 1 – AS ORIGINALLY SUBMITTED – Power Recovery Revenue and Purchased Power

Reconciliation to Audited Financial Statements

	2018 ²
Total Power Recovery Revenue as per Audited Financial Statements	\$(857,382,585)
RSVA - General Energy Sales	\$3,207,780
RSVA – Wholesale Market Service Charge – Net Movement	\$1,523,480
RSVA – Retail Transmission Connection Charge – Net Movement	\$ 617,376
LV Variance Account – Net Movement	\$85,363
IFRS Regulatory Balance Adjustment (IFRS 14) ³	\$(967,947)
Total Power Recovery Revenue as per RRR	\$(852,916,534)
Total Purchased Power as per Audited Financial Statements	\$864,442,255
RSVA – Power (excluding Global Adjustment) – Net Movement	\$(736,537)
RSVA – Retail Transmission Network Charge – Net Movement	\$(104,806)
IFRS Regulatory Balance Adjustment (IFRS 14)	\$(10,684,378)
Total Purchased Power as per RRR	\$852,916,534
NET POWER RECOVERY REVENUE AND PURCHASED POWER as per RRR	-

3

⁴ Information on the reconciliation for previous years (i.e. 2016 and 2017) is available in the annual rate adjustment 5 applications submitted by Hydro Ottawa and approved by the OEB, as part of the utility's 2016-2020 Custom

Incentive Rate-Setting ("Custom IR") rate plan. Applicable OEB file numbers are EB-2017-0052 and EB-2018-0044. These amounts are included in the "Net movement in regulatory balances, net of tax" on the Statement of Income.

⁸ All rate-regulated transactions for the period are summarized and presented as "Net movement in regulatory

⁹ balances, net of tax" under IFRS 14.



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Table 1 – UPDATED FOR 2019 ACTUALS – Power Recovery Revenue and Purchased

Power Reconciliation to Audited Financial Statements

	2018 ⁴	2019
Total Power Recovery Revenue as per Audited Financial Statements	\$(857,382,585)	\$(904,030,238)
RSVA - General Energy Sales	\$3,207,780	
RSVA – Wholesale Market Service Charge – Net Movement	\$1,523,480	\$2,500,224
RSVA – Retail Transmission Network Charge – Net Movement	\$0	\$714,195
RSVA – Retail Transmission Connection Charge – Net Movement	\$ 617,376	\$4,577,938
LV Variance Account – Net Movement	\$85,363	\$304,865
IFRS Regulatory Balance Adjustment (IFRS 14)⁵	\$(967,947)	\$3,708,704
Total Power Recovery Revenue as per RRR	\$(852,916,534)	\$(892,224,311)
Total Purchased Power as per Audited Financial Statements	\$864,442,255	\$910,151,755
RSVA – Power (excluding Global Adjustment) – Net Movement	\$(736,537)	\$(1,227,760)
RSVA - Global Adjustment - Net Movement	\$0	\$(5,277,705)
RSVA – Retail Transmission Network Charge – Net Movement	\$(104,806)	\$0
IFRS Regulatory Balance Adjustment (IFRS 14)	\$(10,684,378)	\$(11,421,979)
Total Purchased Power as per RRR	\$852,916,534	\$892,224,311
NET POWER RECOVERY REVENUE AND PURCHASED POWER as per RRR	-	-

3

1

2

5 below.

⁴ Totals for Power Recovery Revenue and Purchased Power by USofA are presented in Table 2

⁶ Information on the reconciliation for previous years (i.e. 2016 and 2017) is available in the annual rate adjustment 7 applications submitted by Hydro Ottawa and approved by the OEB, as part of the utility's 2016-2020 Custom

Incentive Rate-Setting ("Custom IR") rate plan. Applicable OEB file numbers are EB-2017-0052 and EB-2018-0044. These amounts are included in the "Net movement in regulatory balances, net of tax" on the Statement of Income.

¹⁰ All rate-regulated transactions for the period are summarized and presented as "Net movement in regulatory

¹¹ balances, net of tax" under IFRS 14.



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1 Table 2 – AS ORIGINALLY SUBMITTED – Power Recovery Revenue and Purchased Power

Accou	nt and Description	2018
4006	Residential Energy Sales	\$(197,848,344)
4020	Energy Sales to Large Users	\$(54,947,342)
4025	Street Lighting Energy Sales	\$(3,751,464)
4030	Sentinel Lighting Energy Sales	\$0
4035	General Energy Sales	\$(478,470,453)
4050	Revenue Adjustment	\$0
4062	Billed – WMS	\$(27,902,917)
4066	Billed – NW	\$(49,963,599)
4068	Billed – CN	\$(37,527,239)
4075	Billed – LV	\$(350,336)
4076	Billed – Smart Metering Entity Charge	\$(2,154,840)
Total F	Power Recovery Revenue	\$(852,916,534)
4705	Power Purchased	\$378,957,229
4707	Charges – Global Adjustment	\$356,060,374
4708	Charges – WMS	\$27,902,917
4714	Charges – NW	\$49,963,599
4716	Charges – CN	\$37,527,239
4750	Charges – LV	\$350,336
4751	Charges – Smart Metering Entity Charge	\$2,154,840
Total F	Purchased Power	\$852,916,534
NET P	OWER RECOVERY REVENUE AND PURCHASED POWER	\$0



1

3

Hydro Ottawa Limited EB-2019-0261 Exhibit 9 Tab 1 Schedule 2 UPDATED May 5, 2020 Page 5 of 7

Table 2 – UPDATED FOR 2019 ACTUALS – Power Recovery Revenue and Purchased Power

Account and Description	2018	2019
4006 Residential Energy Sales	\$(197,848,344)	\$(211,747,627)
4020 Energy Sales to Large Users	\$(54,947,342)	\$(57,858,911)
4025 Street Lighting Energy Sales	\$(3,751,464)	\$(3,251,207)
4030 Sentinel Lighting Energy Sales	\$0	\$0
4035 General Energy Sales	\$(478,470,453)	\$(506,489,894)
4050 Revenue Adjustment	\$0	\$0
4062 Billed – WMS	\$(27,902,917)	\$(26,340,471)
4066 Billed – NW	\$(49,963,599)	\$(48,773,662)
4068 Billed – CN	\$(37,527,239)	\$(35,420,612)
4075 Billed – LV	\$(350,336)	\$(122,457)
4076 Billed – Smart Metering Entity Charge	\$(2,154,840)	\$(2,219,471)
Total Power Recovery Revenue	\$(852,916,534)	\$(892,224,311)
4705 Power Purchased	\$378,957,229	\$373,128,687
4707 Charges – Global Adjustment	\$356,060,374	\$406,218,952
4708 Charges – WMS	\$27,902,917	\$26,340,471
4714 Charges – NW	\$49,963,599	\$48,773,662
4716 Charges – CN	\$37,527,239	\$35,420,612
4750 Charges – LV	\$350,336	\$122,457
4751 Charges – Smart Metering Entity Charge	\$2,154,840	\$2,219,471
Total Purchased Power	\$852,916,534	\$892,224,311
NET POWER RECOVERY REVENUE AND PURCHASED POWER	\$0	\$0

3. CLASS A & CLASS B GLOBAL ADJUSTMENT AND COMMODITY

- 5 Total wholesale purchases include purchases from the Independent Electricity System Operator
- 6 ("IESO"), Hydro One Networks Inc. and various embedded generators. On a monthly basis,
- 7 Hydro Ottawa accrues purchased power cost, which includes cost for CT 148 Class B Global
- 8 Adjustment ("GA") and CT 101 Commodity. Hydro Ottawa records such amounts into
- 9 pass-through Class B GA expense and Commodity expense accounts, respectively.



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1 Hydro Ottawa also accrues unbilled Power Recovery Revenue, which includes revenue for

2 Class B Global Adjustment and Commodity. The utility records amounts into pass-through Class

B GA revenue and Commodity revenue accounts, respectively.

4

5 Hydro Ottawa bills all Class B non-Regulated Price Plan ("RPP") customers on the first GA rate

6 posted on the IESO's website. For Commodity, Hydro Ottawa bills RPP customers the Time of

7 Use ("TOU") or Tiered prices ("Tiered"). Non-RPP customers are billed the weighted average

8 hourly spot price ("WAHSP") or the Hourly Ontario Energy Price ("HOEP"). The RPP portion of

9 the CT 148 GA Charge is recorded into the Commodity expense account. Hydro Ottawa

10 confirms that journal entries are recorded as instructed in the OEB's accounting guidance

11 related to commodity pass-through Accounts 1588 and 1589.6

12

13 The estimates for unbilled Power Recovery Revenue are based on preliminary metered data.

14 An interval class customer's unbilled estimate is based on preliminary metered hourly data,

15 while a non-interval class customer's unbilled data is based on preliminary smart metered data.

16 Where meter data is missing, a class average is used as an estimate.

17

18 By the fourth business day of the following month, Hydro Ottawa submits to the IESO the

9 difference between fixed price for TOU and Tiered purchases, as well as the estimated weighted

o average price for RPP customers and the RPP portion of the GA Charge, which is based upon

21 the second GA rate multiplied by the estimated TOU and Tiered kWh (billed and unbilled). The

2 RPP portion of the GA Charge is recorded into Account 1588. The RPP proration is based on

3 billed and estimated unbilled kWh. This is requested through CT 142.

24

25 RPP settlement CT 142 first true-up is completed the month following the initial settlement claim

26 and consists of updating the GA second rate to actual GA rate paid. At the same time, the

27 updates are made to the wholesale purchased power cost (price and volume) to actual price

. .

Ontario Energy Board, Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity Pass-Through Accounts 1588 &1589 (February 21, 2019), page 33.



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- 1 and quantity. Additional true-ups are completed when actual kWh sales for RPP customers vs.
- 2 non-RPP customers are known. All changes are recorded in the general ledger.

3

- 4 Final true-up between 1588 and 1589 will be completed up to and as at May 31 of each
- 5 subsequent year for the previous calendar year. Final reviews for 2018 were completed and
- 6 reported as part of Hydro Ottawa's 2020 annual rate adjustment application. As part of the
- 7 updates to this Application for 2019 actuals, Hydro Ottawa has included balances to the end of
- 8 2019 with final true-up to April 30, 2020 (incorporating a final true-up that will be included in the
- 9 April month-end IESO submission).

10

- 11 Hydro Ottawa bills its Class A customers the amount the utility pays for Class A global
- 12 adjustment.

13

- 14 Hydro Ottawa has no embedded distributors in its service territory. Wholesale metered
- 15 customers are billed directly from the IESO. Hydro Ottawa submits kWh to the IESO for
- 16 embedded generation within its service territory.

17

- 18 Hydro Ottawa calculates and maintains both GA Retail Settlement Variance Accounts ("RSVAs")
- 19 for Class A and Class B separately in Sub-Accounts of Account 1589.

20

21 4. CERTIFICATION OF EVIDENCE

- 22 As per the Chapter 2 Filing Requirements for Electricity Distribution Rate Applications, as
- 23 updated on July 12, 2018 and addended on July 15, 2019, Hydro Ottawa's Chief Financial
- 24 Officer hereby certifies that the utility maintains robust processes and internal controls for the
- 25 preparation, review, verification, and oversight of Account 1588 RSVA Power and Account
- 26 1589 RSVA Global Adjustment.

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²⁷ Hydro Ottawa Limited, 2020 Electricity Distribution Rate Application, EB-2019-0046 (August 12, 2019).



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UPDATED GROUP 2 ACCOUNTS

2

1

3 1. INTRODUCTION

- 4 As per the OEB's report on the Electricity Distributors' Deferral and Variance Account Review
- 5 Initiative1 ("EDDVAR Report"), Group 2 Accounts include deferral and variance accounts
- 6 ("DVAs") that require a prudency review by the OEB. Please see Table 2 in UPDATED Exhibit
- 7 9-1-1: Summary of Current Deferral and Variance Accounts for a list of Hydro Ottawa's active
- 8 Group 2 DVAs.

9

10 This Schedule discusses Group 2 Accounts, with the exception of the following:

11

- Account 1592 (for details, please see <u>UPDATED</u> Exhibit 9-1-4: Account 1592 PILS and
 Tax Variance);
- Accounts 1518 and Account 1548 (for details, please see Exhibit 9-1-5: Retail Service
 Charges); and
 - 1568 Lost Revenue Adjustment Mechanism ("LRAM") Variance Account (for details, please see <u>UPDATED</u> Exhibit 4-5-2: LRAM Variance Account).

18

16

17

- 19 More information on the disposition of these accounts is available in **UPDATED** Exhibit 9-3-1:
- 20 Disposition of Deferral and Variance Accounts.

21

22 2. DVAs EFFECTIVE PRIOR TO JANUARY 1, 2016

- 23 This section provides an overview of Group 2 Accounts that were effective prior to the beginning
- 24 of Hydro Ottawa's current five-year rate term (i.e. prior to January 1, 2016).

Ontario Energy Board, Report of the Board on Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR), EB-2008-0046 (July 31, 2009).



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1 **2.1**. **ENERGY EAST - TRANS CANADA PIPELINE**

- 2 A Sub-Account to Uniform System of Accounts ("USofA") 1508 was added for the Energy East
- 3 TransCanada Pipeline in Hydro Ottawa's 2016 rebasing application.² This deferral Account was
- 4 set-up to capture costs associated with consultations regarding TransCanada Pipeline Limited's
- 5 proposed Energy East pipeline project. In a letter dated April 15, 2014, the OEB advised that a
- 6 portion of the costs associated with consultations regarding TransCanada's Energy East project
- 7 would be recovered from all entities which are subject to the OEB's cost assessment under
- 8 section 26 of the Ontario Energy Board Act, 1998.3

9

- 10 Hydro Ottawa has set-up the deferral Account, as per the instructions set forth in a separate
- 11 OEB letter issued June 13, 2014.4 Furthermore, consistent with the OEB's guidance, Hydro
- Ottawa has maintained this deferral Account as a Group 2 Account and disposition is occurring
- in conjunction with a rebasing application. In addition, Hydro Ottawa has applied carrying
- 14 charges to this account.5

15

- 16 Hydro Ottawa is proposing to dispose of this Sub-Account on a final basis in this Application and
- 17 to discontinue use of this Account following adjudication of the Application.

18

19 2.2. **P&OPEB Deferral Account**

- 20 Sub-Account 1508 Other Regulatory Assets Other Post-Employment Benefits ("OPEB")
- 21 Deferral Account is used to record cumulative actuarial gains or losses in Hydro Ottawa's
- 22 post-retirement benefits. This Account was originally approved in Hydro Ottawa's 2012 rate
- 23 application.⁶

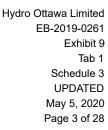
²⁴ Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application, EB-2015-0004 (April

<sup>25, 29, 2015).
26 &</sup>lt;sup>3</sup> Ontario Energy Board, Letter re: *Board Costs Associated with Consultations on TransCanada Pipelines Limited's*

²⁷ Proposed Energy East Figetime Froject, EB-2010 0000 (1,5)... 10, 2011, 10, 2011, 10, 2011, 2011 of the Proposed Energy Board, Letter re: Board Costs Associated with Consultations on TransCanada Pipelines Limited's 29 Proposed Energy East Pipeline Project, EB-2013-0398 (June 13, 2014), pages 1-2.

ontario Energy Board, Accounting Procedures Handbook Guidance (March 2015), Question 4, page 4.

³¹ Ontario Energy Board, *Decision and Order*, EB-2011-0054 (December 28, 2011).





1 3. DVAs EFFECTIVE JANUARY 1, 2016

- 2 As part of the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term,⁷
- 3 the utility established a number of new DVAs effective January 1, 2016.8 Each of the Accounts is
- 4 recorded into a Sub-Account of 1508.

5

6 The new DVAs established effective January 1, 2016 were as follows:

7

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- Sub-Account 1508 Other Regulatory Assets Y-Factor Variance Account, to record the revenue requirement associated with the construction of new administrative and operations facilities and related land up to \$66.0M;
- Sub-Account 1508 Other Regulatory Assets Gains/Losses from Sale of Existing
 Facilities Deferral Account, to record the after tax gains/losses from the sale of existing
 facilities;
 - Sub-Account 1508 Other Regulatory Assets New Facilities Deferral Account, to record the revenue requirement impacts arising from costs of the new facilities and land that is above the \$66.0M captured in the Y-Factor Variance Account;
 - Sub-Account 1508 Other Regulatory Assets Gains and Losses on disposal of Fixed Assets Variance Account, to record the difference between the forecast and actual loss on the disposal of fixed assets, related to retirement of assets or damage to plant;
 - Sub-Account 1508 Other Regulatory Assets Earnings Sharing Mechanism ("ESM")
 Variance Account, to record amounts related to any earnings above Hydro Ottawa's approved Return on Equity ("ROE") to be shared on a 50/50 basis between Hydro Ottawa and its ratepayers with no deadband;
 - Sub-Account 1508 Other Regulatory Assets Connection Cost Recovery Agreement ("CCRA") Payments Deferral Account, to record the revenue requirement impact of CCRA payments made to Hydro One Networks Inc. ("HONI");

-

⁷ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Approved Settlement Proposal*, EB-2015-0004 (December 7, 2015).

⁸ Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015), page 10 and Schedule C.





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- Sub-Account 1508 Other Regulatory Assets Revenue Requirement Differential Variance Account related to Capital Additions, to record the revenue requirement impact of underspending on Hydro Ottawa's capital plan by specific categories;
 - Sub-Account 1508 Other Regulatory Assets Efficiency Adjustment Mechanism ("EAM") Deferral Account, to record the proxy stretch factor related to any Hydro Ottawa efficiency ranking declines during the Custom Incentive Rate-setting ("Custom IR") term from 2016-2020;
 - Sub-Account 1508 Other Regulatory Assets Wireless Attachment Revenues Deferral Account, to record revenues earned, if any, from wireless attachments during the 2016-2020 period; and
 - Sub-Account 1508 Other Regulatory Assets Pole Attachment Charge Revenues
 Variance Account, to record the difference between revenue based on the pole
 attachment charge of \$57.00 per attachment per year and revenue based on the final
 charge approved by the OEB for 2016 of \$53.00.

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16 3.1. Y FACTOR VARIANCE ACCOUNT

HydroOttawa

The Y Factor Account was established to recover the revenue requirement associated with the construction of the new South Operations and Warehouse facility and the new East Operations and Administrative Campus facility and related land ("New Facilities"). As set out in the Approved Settlement Agreement, the cost of the New Facilities up to \$66.0M was to be recorded into rate base once the New Facilities were placed into service.

22

The Y Factor Account was also intended to capture the Existing Facilities' revenue requirement when they were taken out of service. Per the Approved Settlement Agreement, the Existing Facilities were to be removed from rate base in the same calendar year as the New Facilities were placed in service, or when the Existing Facilities were sold, whichever occurred first.

27

The New Facilities were put into service in May 2019. The Existing Facilities, with the exception of Bank Street, were removed from service in 2019. Due to changes in the Facilities Renewal



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1 Program, the Bank Street facility is being kept and remains part of Hydro Ottawa's rate base.

2 For further details, please refer to **UPDATED** Attachment 2-1-1(A): New Administrative Office

3 and Operations Facilities.

4

5 Hydro Ottawa received approval for an interim rate rider as part of its 2020 rate adjustment

6 application to clear the net impact of adding the revenue requirement of the New Facilities and

7 the removal of the revenue requirement of the Existing Facilities.9 Preliminary New Facilities

costs were used to calculate the revenue requirement of the New Facilities. An estimate of the

9 final sale date of the Existing Facilities was used to calculate the return of revenue requirement

orelated to the Existing Facilities. As part of this Application, Hydro Ottawa is requesting the

11 true-up amount related to the Y Factor Account.

12

3 As per the Approved Settlement Agreement, the 2019 and 2020 revenue requirement will be

14 trued-up for final costs. 10 The preliminary estimate of \$66.0M rate base was derived from the

15 estimated total cost of the New Facilities, after the removal of the \$15.0M approved portion for

6 land, based on estimated amounts by component. In turn, depreciation and taxes were

17 calculated based on this component allocation.

18

9 Hydro Ottawa has incorporated the New Facilities' full cost into the 2021 revenue requirement

20 proposed in **UPDATED** Exhibit 6-1-1: Calculation of Revenue Deficiency or Sufficiency.

1 Therefore, no amounts are being recorded in the Y Factor account after 2020.

22

23 As requested by the OEB during the adjudication of Hydro Ottawa's 2020 rate adjustment

24 application, any impact of Bill C-97 has not been included in the Y Factor Account. 11 Please see

25 UPDATED Exhibit 9-1-4: Account 1592 PILS and Tax Variance for further details on Bill C-97

26 and its impacts.

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⁹ Hydro Ottawa Limited, 2020 Electricity Distribution Rate Application, EB-2019-0046 (August 12, 2019).

^{28 &}lt;sup>10</sup> Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Approved Settlement Proposal, EB-2015-0004

^{29 (}December 7, 2015), pages 20, 52-56. 30 11 Ontario Energy Board, *Decision and Rate Order*, EB-2019-0046 (December 17, 2019), page 22.



Exhibit 9 Tab 1

- 1 The updated version of Table 1 provides the updated revenue requirement impact of the New
- 2 Facilities, capped by the Y Factor amount of \$66.0M.

3

Table 1 - AS ORIGINALLY SUBMITTED - New Facility Revenue Requirement - \$66.0M 4

	2019	2020
Opening Gross Asset Balance	\$0	\$66,000,000
Additions	\$66,000,000	\$0
Closing Gross Asset Balance	\$66,000,000	\$66,000,000
Opening Accumulated Depreciation	\$0	\$1,141,430
Current Year Depreciation	\$1,141,430	\$1,695,114
Closing Accumulated Depreciation	\$1,141,430	\$2,836,544
Net Asset Balance	\$64,858,570	\$63,163,456
Rate Base (Average Net)	\$32,429,285	\$64,011,013
Financial Net Income	\$1,164,860	\$2,299,276
Add Depreciation	\$1,141,430	\$1,695,114
Deduct CCA	\$(1,456,868)	\$(2,791,754)
Net Income For Tax Purposes	\$849,422	\$1,202,635
Tax Rate	26.5%	26.5%
PILS	\$225,097	\$318,698
PILS Grossed-up	\$306,254	\$433,603
Depreciation	\$1,141,430	\$1,695,114
Short-Term Interest ¹²	\$36,580	\$72,204
Long-Term Interest ¹³	\$671,390	\$1,323,441
ROE ¹⁴	\$1,164,860	\$2,299,276
PILS Grossed-up	\$306,254	\$433,603
TOTAL REVENUE REQUIREMENT	\$3,320,514	\$5,823,637
Revenue Requirement in 2020 Rate Application	\$(3,231,034)	\$(5,664,943)
REMAINING DISPOSAL AMOUNT ¹⁵	\$89,480	\$158,694

 $^{^{5}}$ 12 Hydro Ottawa has used approved yearly Cost of Capital parameters for this item. Please see Exhibit 5-1-1: Cost of 6 Capital and Capital Structure. 7 13 *Ibid.*

^{8 &}lt;sup>14</sup> *Ibid*.

^{9 15} Totals may not sum due to rounding.

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Table 1 - UPDATED FOR 2019 ACTUALS - New Facility Revenue Requirement - \$66.0M

	2019	2020
Opening Gross Asset Balance	\$0	\$66,000,000
Additions	\$66,000,000	\$0
Closing Gross Asset Balance	\$66,000,000	\$66,000,000
Opening Accumulated Depreciation	\$0	\$1,132,532
Current Year Depreciation	\$1,132,532	\$1,695,098
Closing Accumulated Depreciation	\$1,132,532	\$2,827,630
Net Asset Balance	\$64,867,468	\$63,172,370
Rate Base (Average Net)	\$32,433,734	\$64,019,919
Financial Net Income	\$1,165,020	\$2,299,595
Add Depreciation	\$1,132,532	\$1,695,098
Deduct CCA	\$(1,460,407)	\$(2,798,621)
Net Income For Tax Purposes	\$837,145	\$1,196,073
Tax Rate	26.5%	26.5%
PILS	\$221,843	\$316,959
PILS Grossed-up	\$301,828	\$431,237
Depreciation	\$1,132,532	\$1,695,098
Short-Term Interest ¹⁶	\$36,585	\$72,214
Long-Term Interest ¹⁷	\$671,482	\$1,323,625
ROE ¹⁸	\$1,165,020	\$2,299,595
PILS Grossed-up	\$301,828	\$431,237
TOTAL REVENUE REQUIREMENT	\$3,307,447	\$5,821,770
Revenue Requirement in 2020 Rate Application	\$(3,231,034)	\$(5,664,943)
REMAINING DISPOSAL AMOUNT ¹⁹	\$76,413	\$156,827

2

4 Facilities.

³ Table 2 below provides the updated revenue requirement of the removal of the Existing

 $^{^{5}}$ 16 Hydro Ottawa has used approved yearly Cost of Capital parameters for this item. Please see $\frac{\text{UPDATED}}{\text{Exhibit}}$

 ^{5-1-1:} Cost of Capital and Capital Structure.
 Ibid.

^{8 &}lt;sup>18</sup> *Ibid*.

⁹ Totals may not sum due to rounding.

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Table 2 – Y Factor Revenue Requirement - Removal of Existing Facilities²⁰

	2019	2020
Opening Gross Asset Balance	\$21,117,800	\$21,117,800
Additions	\$(21,117,800)	\$0
Closing Gross Asset Balance	\$0	\$21,117,800
Opening Accumulated Depreciation	\$6,951,063	\$8,129,952
Current Year Depreciation	\$184,253	\$1,178,890
Current Year Deletions	\$(7,135,316)	\$0
Closing Accumulated Depreciation	\$0	\$9,308,842
Net Asset Balance	\$0	\$11,808,958
Rate Base (Average Net)	\$7,083,368	\$12,398,402
Financial Net Income	\$254,435	\$445,351
Add Depreciation	\$184,253	\$1,178,890
Deduct CCA	\$(63,167)	\$(335,590)
Net Income For Tax Purposes	\$375,520	\$1,288,650
Tax Rate	26.5%	26.5%
PILS	\$99,513	\$341,492
PILS Grossed-up	\$135,392	\$464,615
Depreciation	\$184,253	\$1,178,890
Short-Term Interest ²¹	\$7,990	\$13,985
Long-Term Interest ²²	\$146,648	\$256,339
ROE ²³	\$254,435	\$445,351
PILS Grossed-up	\$135,392	\$464,615
TOTAL REVENUE REQUIREMENT ²⁴	\$728,718	\$2,359,181
Revenue Requirement in 2020 Rate Application	(\$817,718)	(\$2,357,273)
REMAINING DISPOSAL AMOUNT	(\$89,000)	1,908

 $^{^{2}}$ Table 2 is presented in the format of additions to rate base. However, positive amounts represent a return to

³ customers.
4 21 Hydro Ottawa has used approved yearly Cost of Capital parameters for this item. Please see UPDATED Exhibit 5 5-1-1: Cost of Capital and Capital Structure. 6 22 *Ibid*.

^{7 &}lt;sup>23</sup> *Ibid.*

^{8 24} Totals may not sum due to rounding.



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- 1 The true-up revenue requirement related to the Y Factor Account has been included in the
- 2 adjustments column of **UPDATED** Attachment 9-1-1(A): OEB Workform Deferral and Variance
- 3 Account (Continuity Schedule) in order to dispose of the amount as part of this Application.

4

5 3.2. NEW FACILITIES DEFERRAL ACCOUNT

- 6 The New Facilities Account was established to record the revenue requirement impacts of the
- 7 costs of the New Facilities and related land that are above \$66.0M. Any amount recorded into
- 8 this account is subject to a prudency review.

9

- 10 Hydro Ottawa started recording the revenue requirement impact of amounts above \$66.0M in
- 11 2019. The amount recorded into this account was based on the total estimated cost of the New
- 12 Facilities and then the removal of the revenue requirement presented in Table 1 as updated
- 13 above for the amount up to the cost of \$66.0M.

14

- 15 The updated version of Table 3 below provides the revenue requirement impact of the New
- 16 Facilities above the Y Factor amount of \$66.0M for 2019 and 2020. Thereafter, the updated
- 17 version of Table 4 below provides the total revenue requirement impact of the New Facilities for
- 18 2019 and 2020.

19

- 20 Hydro Ottawa has incorporated the New Facilities' full cost into the 2021 revenue requirement
- 21 proposed in **UPDATED** Exhibit 6-1-1: Calculation of Revenue Deficiency or Sufficiency.
- 22 Therefore, no amounts are being recorded into this Regulatory Account after 2020.

- 24 As noted above, as requested by the OEB during the adjudication of Hydro Ottawa's 2020 rate
- 25 adjustment application, any impact of Bill C-97 has not been included in this New Facilities
- 26 Deferral Account. Please see UPDATED Exhibit 9-1-4: Account 1592 PILS and Tax Variance for
- 27 further details on Bill C-97 and its impacts.



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Table 3 – AS ORIGINALLY SUBMITTED – New Facility Revenue Requirement - Above

\$66.0M 2

	2019	2020
Opening Gross Asset Balance	\$0	\$33,543,840
Additions	\$33,543,840	\$0
Closing Gross Asset Balance	\$33,543,840	\$33,543,840
Opening Accumulated Depreciation	\$0	\$650,149
Current Year Depreciation	\$650,149	\$965,522
Closing Accumulated Depreciation	\$650,149	\$1,615,671
Net Asset Balance	\$32,893,691	\$31,928,168
Rate Base (Average Net)	\$16,446,845	\$32,410,930
Financial Net Income	\$590,771	\$1,164,201
Add Depreciation	\$650,149	\$965,522
Deduct CCA	\$(966,666)	\$(1,855,641)
Net Income For Tax Purposes	\$274,254	\$274,082
Tax Rate	26.5%	26.5%
PILS	\$72,677	\$72,632
PILS Grossed-up	\$98,881	\$98,819
Depreciation	\$650,149	\$965,522
Short-Term Interest ²⁵	\$18,552	\$36,560
Long-Term Interest ²⁶	\$340,502	\$670,102
ROE ²⁷	\$590,771	\$1,164,201
PILS Grossed-up	\$98,881	\$98,819
TOTAL REVENUE REQUIREMENT ²⁸	\$1,698,855	\$2,935,204

 $^{^4}$ 25 Hydro Ottawa has used approved yearly Cost of Capital parameters for this item. Please see $\frac{\text{UPDATED}}{\text{Exhibit}}$

^{5 5-1-1:} Cost of Capital and Capital Structure.
6 26 *lbid.*7 27 *lbid.*

^{8 &}lt;sup>28</sup> Totals may not sum due to rounding.



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Table 3 - UPDATED FOR 2019 ACTUALS - New Facility Revenue Requirement - Above

2 \$66.0M

	2019	2020
Opening Gross Asset Balance	\$0	\$33,544,582
Additions	\$33,544,582	\$0
Closing Gross Asset Balance	\$33,544,582	\$33,544,582
Opening Accumulated Depreciation	\$0	\$645,097
Current Year Depreciation	\$645,097	\$965,537
Closing Accumulated Depreciation	\$645,097	\$1,610,634
Net Asset Balance	\$32,899,485	\$31,933,948
Rate Base (Average Net)	\$16,449,743	\$32,416,716
Financial Net Income	\$590,875	\$1,164,408
Add Depreciation	\$645,097	\$965,537
Deduct CCA	\$(966,690)	\$(1,855,688)
Net Income For Tax Purposes	\$269,281	\$274,258
Tax Rate	26.5%	26.5%
PILS	\$71,360	\$72,678
PILS Grossed-up	\$97,088	\$98,882
Depreciation	\$645,097	\$965,537
Short-Term Interest ²⁹	\$18,555	\$36,566
Long-Term Interest ³⁰	\$340,562	\$670,222
ROE ³¹	\$590,875	\$1,164,408
PILS Grossed-up	\$97,088	\$98,882
TOTAL REVENUE REQUIREMENT ³²	\$1,692,177	\$2,935,616

⁴ ²⁹ Hydro Ottawa has used approved yearly Cost of Capital parameters for this item. Please see UPDATED Exhibit

^{5 5-1-1:} Cost of Capital and Capital Structure.
6 30 *lbid.*7 31 *lbid.*

^{8 32} Totals may not sum due to rounding.



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Table 4 – AS ORIGINALLY SUBMITTED – New Facility Total Revenue Requirement

	2019	2020
Opening Gross Asset Balance	\$0	\$99,543,840
Additions	\$99,543,840	\$0
Closing Gross Asset Balance	\$99,543,840	\$99,543,840
Opening Accumulated Depreciation	\$0	\$1,791,579
Current Year Depreciation	\$1,791,579	\$2,660,636
Closing Accumulated Depreciation	\$1,791,579	\$4,452,215
Net Asset Balance	\$97,752,261	\$95,091,625
Rate Base (Average Net)	\$48,876,130	\$96,421,943
Financial Net Income	\$1,755,631	\$3,463,476
Add Depreciation	\$1,791,579	\$2,660,636
Deduct CCA	\$(2,423,534)	\$(4,647,395)
Net Income For Tax Purposes	\$1,123,676	\$1,476,717
Tax Rate	26.5%	26.5%
PILS	\$297,774	\$391,330
PILS Grossed-up	\$405,135	\$532,422
Depreciation	\$1,791,579	\$2,660,636
Short Term Interest ³³	\$55,132	\$108,764
Long-Term Interest ³⁴	\$1,011,892	\$1,993,543
ROE ³⁵	\$1,755,631	\$3,463,476
PILS Grossed-up	\$405,135	\$532,422
TOTAL REVENUE REQUIREMENT ³⁶	\$5,019,369	\$8,758,841

2

 $^{^3}$ Hydro Ottawa has used approved yearly Cost of Capital parameters for this item. Please see $\frac{\text{UPDATED}}{\text{Exhibit}}$ 4 5-1-1: Cost of Capital and Capital Structure. 5 34 *Ibid*.

^{6 35} *Ibid.*7 36 Totals may not sum due to rounding.

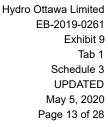




Table 4 - UPDATED FOR 2019 ACTUALS - New Facility Total Revenue Requirement

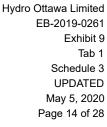
	2019	2020
Opening Gross Asset Balance	\$0	\$99,544,582
Additions	\$99,544,582	\$0
Closing Gross Asset Balance	\$99,544,582	\$99,544,582
Opening Accumulated Depreciation	\$0	\$1,777,629
Current Year Depreciation	\$1,777,629	\$2,660,636
Closing Accumulated Depreciation	\$1,777,629	\$4,438,264
Net Asset Balance	\$97,766,953	\$95,106,317
Rate Base (Average Net)	\$48,883,477	\$96,436,635
Financial Net Income	\$1,755,894	\$3,464,004
Add Depreciation	\$1,777,629	\$2,660,636
Deduct CCA	\$(2,427,097)	\$(4,654,309)
Net Income For Tax Purposes	\$1,106,426	\$1,470,330
Tax Rate	26.5%	26.5%
PILS	\$293,203	\$389,638
PILS Grossed-up	\$398,916	\$530,119
Depreciation	\$1,777,629	\$2,660,636
Short Term Interest ³⁷	\$55,141	\$108,781
Long-Term Interest ³⁸	\$1,012,044	\$1,993,847
ROE ³⁹	\$1,755,894	\$3,464,004
PILS Grossed-up	\$398,916	\$530,119
TOTAL REVENUE REQUIREMENT ⁴⁰	\$4,999,624	\$8,757,386

- 3 The revenue requirement related to the New Facilities Deferral Account has been included in
- 4 the adjustments column of **UPDATED** Attachment 9-1-1(A): OEB Workform Deferral and
- 5 Variance Account (Continuity Schedule) in order to dispose of the amount as part of this
- 6 Application.

 $^{^{7}}$ ³⁷ Hydro Ottawa has used approved yearly Cost of Capital parameters for this item. Please see UPDATED Exhibit 8 5-1-1: Cost of Capital and Capital Structure. 9 38 *Ibid*.

^{10 &}lt;sup>39</sup> *Ibid*.

^{11 40} Totals may not sum due to rounding.





1 3.2.1. Gains/Losses from Sale of Existing Facilities Deferral Account

- 2 In this Account, 100% of the after-tax gain/loss from the sale of land and buildings associated
- 3 with the Existing Facilities is captured. Two of the three Existing Facilities were removed from
- 4 service in 2019. Due to changes in the Facilities Renewal Program, the Bank Street facility is
- 5 being kept and remains part of Hydro Ottawa's rate base. Please refer to UPDATED Attachment
- 6 2-1-1(A): New Administrative Office and Operations Facilities for more information.

7

- 8 The Merivale Facility and related Land, as well as the Albion Facility and related Land, were
- 9 sold in the last quarter of 2019. Table 5 has been updated for 2019 actuals and provides the net
- 10 gain on each transaction.

11 12

Table 5 – AS ORIGINALLY SUBMITTED – Gain on Sale of Existing Properties

	2019
Merivale Facility and Land	\$199,963
Albion Facility and Land	\$64,953
Albion Parcel C Land	\$1,760,794
Total to Dispose to Customers ⁴¹	\$2,025,711

1314

Table 5 – UPDATED FOR 2019 ACTUALS – Gain on Sale of Existing Properties

	2019
Merivale Facility and Land	\$375,007
Albion Facility and Land	\$18,259
Albion Parcel C Land	\$1,758,595
Total to Dispose to Customers ⁴²	\$2,151,861

15

- 16 The total estimated gain of \$2.0M has been included in the 2019 adjustments column BF of
- 17 Attachment 9-1-1(A): OEB Workform Deferral and Variance Account (Continuity Schedule), as
- 18 originally submitted, in order to dispose of the amount back to customers as part of this
- 19 Application.

. .

²⁰ ⁴¹ Totals may not sum due to rounding.

²¹ Totals may not sum due to rounding.



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- 1 With updates for 2019 actuals, the total gain of \$2.2M has been included in the 2019
- 2 transactions column BD of UPDATED Attachment 9-1-1(A): OEB Workform Deferral and
- 3 Variance Account (Continuity Schedule) in order to dispose of the amount back to customers.

5 3.2.2.1. Gain for Tax Purposes & Replacement Property Rules

- 6 Canada's Income Tax Act ("ITA") allows taxpayers to elect to defer the recognition of a capital
- 7 gain where a former business property was voluntarily disposed of and a replacement property
- 8 is acquired. When the applicable tax conditions are met, these rules (commonly known as the
- 9 Replacement Property rules) generally allow taxpayers to replace certain property without
- 10 incurring immediate tax consequences.

In 2019, Hydro Ottawa voluntarily disposed of the Existing Facilities (Albion and Merivale) and replaced them with the New Facilities. The ITA therefore permits Hydro Ottawa to use the Replacement Property rules to defer the capital gain on the sale of the land and buildings of the Existing Facilities. Specifically, the calculated capital gain on the sale of land and buildings of the Existing Facilities reduces the additions of the New Facilities. Instead of recognizing a capital gain and paying tax on that capital gain, as part of its original Application Hydro Ottawa has reduced the additions to Class 1.3 of the New Facilities by the approximate gain for tax purposes of \$8.0M in 2019. After accounting for 2019 actuals, Hydro Ottawa has used the

22 As a result, there is no tax adjustment to the gain being returned to customers.

actual gain of \$7.9M to reduce the additions to Class 1.3.

24 3.3. GAINS AND LOSSES ON DISPOSAL OF FIXED ASSETS VARIANCE ACCOUNT

- 25 The purpose of this Account is to record the difference between the forecast and actual gain or
- 26 loss on the disposal of fixed assets, related to retirement of assets or damage to plant (including
- 27 storm-related costs). Examples include losses on meters, station equipment, poles, and



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1 vehicles. The forecasted amount in Hydro Ottawa's 2016-2020 Custom IR Application was a

2 gain of \$198,349.43

3

4 Damage costs related to storms are unpredictable as climate change is causing extreme

5 weather events with increased frequency which are outside of Hydro Ottawa's control. These

6 events (e.g. freezing rain, high wind, temperature and precipitation extremes, tornadoes, etc.)

7 have the ability to cause extensive damage to assets of various life spans. Accordingly, this

8 Account includes the difference between the original estimate of damage to plant and the actual

9 cost of damage to plant, as a result of severe weather events. For further details on the

10 increased frequency of extreme weather events in the Ottawa region, please see Attachment

11 2-4-3(H): Distribution System Climate Risk and Vulnerability Assessment and Attachment

12 2-4-3(I): Hydro Ottawa Climate Change Adaptation Plan.

13

14 Balances related to this Account can be viewed in the updated version of Table 6 and in

15 UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity

16 Schedule).

^{17 43} Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).



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Table 6 – AS ORIGINALLY SUBMITTED – Loss from Retirement of Utility and Other

Property (\$'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical
USofA 4362 OEB-Approved	\$(198)	\$(198)	\$(198)
Actual/Forecast	\$350	\$152	\$264
USofA 1508 ⁴⁴ Variance ⁴⁵	\$(548)	\$(351)	\$(462)

Table 6 – UPDATED FOR 2019 ACTUALS – Loss from Retirement of Utility and Other Property (\$'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Historical
USofA 4362 OEB-Approved	\$(198)	\$(198)	\$(198)	\$(198)
Actual/Forecast	\$350	\$152	\$264	\$1,984
USofA 1508 ⁴⁶ Variance ⁴⁷	\$(548)	\$(351)	\$(462)	\$(2,183)

7 Table 7 provides Hydro Ottawa's estimated costs related to the gain or loss on the disposal of

8 fixed assets, in relation to retirement of assets or damage to plant (including storm-related

9 costs).

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Table 7 – Loss from Retirement of Utility and Other Property (\$'000s)

Net (Gain)/Loss	2021 Test	2022 Test	2023 Test	2024 Test	2025 Test	TOTAL
Estimate ⁴⁸	\$389	\$751	\$323	\$336	\$445	\$2,243

12 3.4. EARNINGS SHARING MECHANISM VARIANCE ACCOUNT

- 13 The purpose of the ESM Account is to credit ratepayers for 50% of any earnings above Hydro
- 14 Ottawa's regulatory ROE, with no dead band. The ratepayer share of the earnings shall be
- 15 grossed up for any tax impacts and credited to this Account.

¹⁶ This refers to USofA 1508 Sub Account Gains and Loss on Disposal of Fixed Assets Variance Account.

^{17 &}lt;sup>45</sup> Totals may not sum due to rounding.

¹⁸ This refers to USofA 1508 Sub Account Gains and Loss on Disposal of Fixed Assets Variance Account.

^{19 &}lt;sup>47</sup> Totals may not sum due to rounding.

^{20 &}lt;sup>48</sup> Totals may not sum due to rounding.



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1

The regulatory net income for the purpose of earnings sharing is to be calculated in the same manner as net income for regulatory purposes under the Reporting and Record Keeping Requirements ("RRR") filings. This will exclude revenue and expenses that are not otherwise

5 included for regulatory purposes, such as settlement of any regulatory assets or regulatory

6 liabilities, including the LRAM and changes in taxes/Payments in Lieu of Taxes ("PILS") to which

7 the USofA 1592 – PILS and Tax Variance for 2006 and Subsequent Years applies.

8

9 Balances related to this Account can be viewed in **UPDATED** Attachment 9-1-1(A): OEB

10 Workform - Deferral and Variance Account (Continuity Schedule). The updated version of Table

11 8 provides calculations for the amounts recorded.



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Table 8 - AS ORIGINALLY SUBMITTED - ESM Calculation (\$'000s)49

	2016	2017
Net Income (per RRR)	\$33,483	\$36,114
Deduct Previous Years' LRAM ⁵⁰	\$(1,042)	\$(1,081)
Add Current Year LRAM ⁵¹	\$551	\$935
PILS Grossed-up on CDM Adjustments ⁵²	\$177	\$53
Net Income after Adjustments	\$33,169	\$36,020
Deemed Equity (per RRR)	\$341,540	\$357,578
ESM Achieved ROE	9.71%	10.07%
Deemed ROE	9.19%	9.19%
% Return Above Deemed	0.52%	0.88%
Earnings Above Regulated Return	\$1,782	\$3,159
50% of Earnings above Regulated Return	\$891	\$1,580
PILS Grossed-up ⁵³	\$321	\$569
RATEPAYERS' SHARE OF OVEREARNING54	\$1,212	\$2,149

 $^{^{3}\,}$ "Current year" means 2016 for the purposes of the column with information for 2016, and 2017 for the purposes of the column with information for 2017.

The column with information for 2017.

Previous years' LRAM includes adjustment to any year not related to the current year.

^{6 51} Current year LRAM includes adjustments in reporting years subsequent to the current year.

 $^{7^{52}}$ Tax rate = 26.5%.

 $^{8^{53}}$ Tax rate = 26.5%.

 $^{^{9}\,\,}$ 54 Totals may not sum due to rounding.

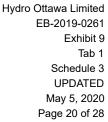




Table 8 - UPDATED FOR 2019 ACTUALS - ESM Calculation (\$'000s)⁵⁵

	2016	2017	2018
Net Income (per RRR)	\$33,483	\$36,114	\$34,605
Deduct Previous Years' LRAM ⁵⁶	\$(1,042)	\$(1,081)	(\$1,081)
Add Current Year LRAM ⁵⁷	\$773	\$935	\$935
PILS Grossed-up on CDM Adjustments ⁵⁸	\$(172)	\$222	(\$45)
Net Income after Adjustments	\$33,311	\$36,336	\$34,559
Deemed Equity (per RRR)	\$341,540	\$357,578	\$378,652
ESM Achieved ROE	9.75%	10.16%	9.13%
Deemed ROE	9.19%	9.19%	9.19%
% Return Above Deemed	0.56%	0.97%	-0.06%
Earnings Above Regulated Return	\$1,924	\$3,475	(\$239)
50% of Earnings above Regulated Return	\$962	\$1,737	\$0
PILS Grossed-up ⁵⁹	\$347	\$626	\$0
RATEPAYERS' SHARE OF OVEREARNING ⁶⁰	\$1,309	\$2,364	\$0

2

1

3 In its original Application, Hydro Ottawa indicated that the utility will provide an update to the

- 4 ESM Account as part of its planned update on DVAs for 2019 Actuals at a later stage in this
- 5 proceeding. This update is provided by way of the updates to Table 8 above, including the 2018
- 6 ESM as calculated with current LRAM calculations. As Hydro Ottawa did not overearn in 2018,
- 7 no ESM was recorded.

8

9 3.5. CONNECTION COST RECOVERY AGREEMENT PAYMENTS DEFERRAL ACCOUNT

- 10 As part of Hydro Ottawa's 2016-2020 application, \$5.0M of unidentified CCRA payments to
- 11 HONI were estimated per year. During the adjudication of the 2016-2020 application, it was

^{12 55 &}quot;Current year" means 2016 for the purposes of the column with information for 2016, and 2017 for the purposes of

the column with information for 2017.

the column with information for 2017.

Previous years' LRAM includes adjustment to any year not related to the current year.

^{15 &}lt;sup>57</sup> Current year LRAM includes adjustments in reporting years subsequent to the current year.

^{16 58} Tax rate = 26.5%.

 $^{^{59}}$ Tax rate = 26.5%.

⁶⁰ Totals may not sum due to rounding.



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agreed to move the unidentified payments out of the proposed revenue requirement and establish the CCRA Regulatory Account. The CCRA Regulatory Account allows Hydro Ottawa to record, and later recover from customers, the annual revenue requirement of CCRA payments that commence in the year in which the facilities (to which each CCRA payment relates) provide services to Hydro Ottawa customers.

6

- 7 Hydro Ottawa recorded the revenue requirement related to eligible projects in 2017 and 2018.
- 8 No revenue requirement was recorded in 2016. Please see the updated version of Table 9
- 9 below for the calculation of the revenue requirement.

10

- 11 Hydro Ottawa has used the new Capital Cost Allowance ("CCA") Class 14.1 rules for eligible
- 12 capital property effective January 1, 2017 for the PILS calculation. As per OEB guidance, any
- 13 impact of Bill C-97 is being recorded into a Sub-Account of 1592. Please see UPDATED Exhibit
- 14 9-1-4: Account 1592 PILs and Tax Variance for further details.

- 16 In addition, it should be noted that the amount in Table 9 below (as originally submitted) does
- 17 not equal what is shown in the completed continuity schedule in Attachment 9-1-1(A): OEB
- 18 Workform Deferral and Variance Account (Continuity Schedule) as an adjustment in 2019 will
- 19 result in the amounts balancing at year-end 2019. <mark>In the updated version of Table 9, the</mark>
- 20 cumulative balance equals the cumulative balance in the completed continuity schedule in
- 21 UPDATED Attachment 9-1-1(A): OEB Workform Deferral and Variance Account (Continuity
- 22 Schedule). Hydro Ottawa is seeking to clear this balance as part of this Application.

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Table 9 – AS ORIGINALLY SUBMITTED – CCRA Revenue Requirement Calculation

	2016	2017	2018
Opening Gross Asset Balance	\$0	\$0	\$706,500
Additions	\$0	\$706,500	\$2,675,789
Closing Gross Asset Balance	\$0	\$706,500	\$3,382,289
Opening Accumulated Depreciation	\$0	\$0	\$3,955
Current Year Depreciation	\$0	\$3,955	\$32,626
Closing Accumulated Depreciation	\$0	\$3,955	\$36,581
Net Asset Balance	\$0	\$702,545	\$3,345,709
Rate Base (Average Net)	\$0	\$351,273	\$2,024,127
Financial Net Income	\$0	\$12,912	\$74,407
Add Depreciation	\$0	\$3,955	\$32,626
Deduct CCA	\$0	\$(17,663)	\$(101,337)
Net Income For Tax Purposes	\$0	\$(795)	\$5,696
Tax Rate	26.5%	26.5%	26.5%
PILS	\$0	\$(211)	\$1,510
PILS Grossed-up	\$0	\$(287)	\$2,054
Depreciation	\$0	\$3,955	\$32,626
Short Term Interest ⁶¹	\$0	\$304	\$1,749
Long-Term Interest ⁶²	\$0	\$7,052	\$41,362
ROE ⁶³	\$0	\$12,913	\$74,407
PILS Grossed-up	\$0	\$(287)	\$2,054
TOTAL REVENUE REQUIREMENT ⁶⁴	\$0	\$23,936	\$152,197

2

³ Hydro Ottawa used approved yearly Cost of Capital parameters (please see **UPDATED** Exhibit 5-1-1: Cost of 4 Capital and Capital Structure). 5 62 *Ibid*.

^{6 63} *Ibid.*7 64 Totals may not match due to rounding.

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Table 9 – UPDATED FOR 2019 ACTUALS – CCRA Revenue Requirement Calculation

	2016	2017	2018	2019
Opening Gross Asset Balance	\$0	\$0	\$706,500	\$2,870,440
Additions	\$0	\$706,500	\$2,163,940	\$10,021,712
Closing Gross Asset Balance	\$0	\$706,500	\$2,870,440	\$12,892,153
Opening Accumulated Depreciation	\$0	\$0	\$3,955	\$36,581
Current Year Depreciation	\$0	\$3,955	\$32,626	\$179,845
Closing Accumulated Depreciation	\$0	\$3,955	\$36,581	\$216,426
Net Asset Balance	\$0	\$702,545	\$2,833,860	\$12,675,727
Rate Base (Average Net)	\$0	\$351,273	\$1,768,203	\$7,754,794
Financial Net Income	\$0	\$12,912	\$64,999	\$278,552
Add Depreciation	\$0	\$3,955	\$32,626	\$179,845
Deduct CCA	\$0	\$(17,663)	\$(88,540)	\$(391,360)
Net Income For Tax Purposes	\$0	\$(795)	\$9,085	\$67,037
Tax Rate	26.5%	26.5%	26.5%	26.5%
PILS	\$0	\$(211)	\$2,407	\$17,765
PILS Grossed-up	\$0	\$(287)	\$3,275	\$24,170
Depreciation	\$0	\$3,955	\$32,626	\$179,845
Short Term Interest ⁶⁵	\$0	\$304	\$1,528	\$8,747
Long-Term Interest ⁶⁶	\$0	\$7,052	\$36,132	\$160,549
ROE ⁶⁷	\$0	\$12,913	\$64,999	\$278,552
PILS Grossed-up	\$0	\$(287)	\$3,275	\$24,170
TOTAL REVENUE REQUIREMENT ⁶⁸	\$0	\$23,936	\$138,560	\$651,863

2

3 3.6. REVENUE REQUIREMENT VARIANCE ACCOUNT RELATED TO CAPITAL 4 ADDITIONS

- 5 The purpose of this Account is to track revenue requirement impacts resulting from any
- 6 underspending in Hydro Ottawa's three capital spending categories: System Renewal/System

67 Ibid.

⁶⁵ Hydro Ottawa used approved yearly Cost of Capital parameters (please see **UPDATED** Exhibit 5-1-1: Cost of Capital and Capital Structure).

⁶⁶ İbid.

⁶⁸ Totals may not match due to rounding.



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1 Service, System Access, and General Plant. 69 The Account is computed and tracked on an

2 annual basis and calculated on a cumulative basis. If overspending occurs, no amount will be

recorded into this Account.

4

5 For the years 2016-2018, Hydro Ottawa spent more than planned in each of the three spending

categories. As a result, no amount has been recorded into this variance account. The utility had

7 indicated in its original Application that it will provide an update to this Account as part of the

update of DVAs for 2019 Actuals that is planned at a later point in this proceeding. Hydro

Ottawa hereby confirms that the utility also spent more than planned in 2019.

10

EFFICIENCY ADJUSTMENT MECHANISM DEFERRAL ACCOUNT 3.7.

This Account was established to provide ratepayers a credit should Hydro Ottawa's efficiency ranking decline during any year of the Custom IR term. The year 2014 is the starting efficiency

ranking point. Hydro Ottawa will not benefit from moving into a more efficient cohort except to

mitigate future adjustments. A detailed example is provided as part of the Approved Settlement

Agreement. 16

17

2019 is the third year for which the efficiency adjustment mechanism ("EAM") assessment was

to be performed. As per the Approved Settlement Agreement, Hydro Ottawa is to calculate the

efficiency adjustment based on the "current year ending point stretch factor." As such, Hydro

Ottawa used the efficiency ranking as determined by the OEB for 2019 rates, which was

22 released on August 15, 2019, for purposes of calculating the impact on its 2018 Revenue

23 Requirement.⁷⁰ Table 10 below provides the EAM calculation.

²⁴ ⁶⁹ The System Renewal and System Service categories have been merged into one category to reflect Hydro

²⁵ Ottawa's standard operating practice to shift funds between the two categories, as warranted by customer and

operational requirements.

Ontario Energy Board, *Incentive Rate Setting: 2018 Benchmarking Update for Determination of 2019 Stretch*

²⁸ Factor Rankings, EB-2010-0379 (August 15, 2019), pages 1-2.



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1 In its original Application, Hydro Ottawa indicated that the utility will include the 2019 amount as

part of the planned updates of DVAs for 2019 Actuals at a later stage in this proceeding. Please

see UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account

(Continuity Schedule) for further information.

5 6

Table 10 – EAM Calculation

	2017	2018	2019
2014 Starting Point - Cohort 3	(0.30%)	(0.30%)	(0.30%)
Ending Point - Cohort 4	$(0.45\%)^{71}$	$(0.45\%)^{72}$	$(0.45\%)^{73}$
% Change	0.15%	0.15%	0.15%
Service Revenue Requirement	\$182,069,831	\$190,594,484	\$196,781,803
EAM	\$273,105	\$285,892	\$295,173

7

8 Hydro Ottawa will report any 2020 EAM as part of its 2022 rate adjustment application.

9

POLE ATTACHMENT CHARGE REVENUES VARIANCE ACCOUNT 10 3.8.

The Pole Attachment Account was established to collect the difference between the \$57.00 pole attachment rate that Hydro Ottawa's distribution revenue was based on in 2016 and the \$53.00 rate from the Pole Attachment Decision.74 As directed by the Pole Attachment Decision and as approved in the adjudication of Hydro Ottawa's 2017 rate adjustment application, this difference 15 was collected as part of the implementation of the utility's 2017 rates. Starting in 2017, Hydro 16 Ottawa's base revenue was adjusted by the Pole Attachment Decision. No further amounts will be recorded into this Account; as such, the discontinuance of this Account is proposed in this 18 Application.

^{19 71} Ontario Energy Board, Incentive Rate Setting: 2016 Benchmarking Update for Determination of 2017 Stretch

Factor Rankings, EB-2010-0379 (August 17, 2017), pages 1-2.
Ontario Energy Board, *Incentive Rate Setting: 2017 Benchmarking Update for Determination of 2018 Stretch*

²² Factor Rankings, EB-2010-0379 (August 23, 2018), pages 1-3.
23 73 Ontario Energy Board, Incentive Rate Setting: 2018 Benchmarking Update for Determination of 2019 Stretch 24 Factor Rankings, EB-2010-0379 (August 15, 2019), pages 1-2.

⁷⁴ Ontario Energy Board, *Decision and Order on Pole Attachment Charge*, EB-2015-0004 (February 25, 2016).



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1 3.9. WIRELESS ATTACHMENT REVENUES DEFERRAL ACCOUNT

- 2 The Wireless Attachment Revenues Deferral Account was established to credit ratepayers with
- 3 revenues earned from wireless attachments for the period 2016-2020.

4

- 5 No revenue has been recorded into this Account. Accordingly, Hydro Ottawa proposes to
- 6 discontinue the use of this Account.

7

8 4. NEW DVAs EFFECTIVE AFTER JANUARY 1, 2016

- 9 This section discusses the DVAs that were (i) established by the OEB, (ii) made effective after
- 10 January 1, 2016, and (iii) not part of the Approved Settlement Agreement governing Hydro
- 11 Ottawa's 2016-2020 rate term.

12

13 4.1. OEB COST ASSESSMENT VARIANCE

- 14 As per the OEB's revisions to the Cost Assessment Model, the OEB established Account 1508
- 15 Other Regulatory Assets Sub-Account OEB Cost Assessment Variance for electricity
- 16 distributors to record any material differences between OEB cost assessments that were built into
- 17 rates at the time of the issuance of the OEB's revisions, and cost assessments that would result
- 18 from the application of the new Cost Assessment Model effective April 1, 2016.75 Hydro Ottawa is
- 19 using this Sub-Account. Please see <mark>UPDATED</mark> Exhibit 4-2-4: Regulatory Costs for further
- 20 information.

21

22 4.2. REGULATORY TREATMENT OF PENSION AND OTHER POST-EMPLOYMENT 23 BENEFITS

- On September 14, 2017, the OEB issued its final report on the regulatory treatment of pension
- 25 and OPEB costs establishing the use of accrual accounting as the default method on which to
- 26 set rates for pension and OPEB amounts in cost-based applications.⁷⁶ Moreover, this report also
- 27 provides for the establishment of a variance account, Account 1522, to track the difference

⁷⁵ Ontario Energy Board, Letter re: *Revisions to the Ontario Energy Board Cost Assessment Model* (February 9, 2016).

²⁸ Ontario Energy Board, Report of the Ontario Energy Board - Regulatory Treatment of Pension and Other

²⁹ Post-Employment Benefits Costs, EB-2015-0040 (September 14, 2017).



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1 between the forecasted accrual amount in rates and actual cash payment(s) made, with an

2 asymmetric carrying charge in favour of ratepayers applied to the differential.

3

4 Hydro Ottawa provides pension benefits for its employees through the Ontario Municipal

5 Employees Retirement System ("OMERS") Fund (the "Fund"). Although the plan is a defined

6 benefit plan, sufficient information is not available to Hydro Ottawa to account for it as such,

7 because it is not possible to attribute the fund assets and liabilities between the various

employers who contribute to the Fund. As a result, Hydro Ottawa accounts for the plan as a

9 defined contribution plan. Contributions payable as a result of employee service are expensed

10 as incurred similar to short-term employee benefits.

11

Hydro Ottawa also provides other post-employment benefits such as life insurance and a retirement grant. These plans provide benefits to certain employees when they are no longer providing active service to the utility. Other post-employment benefits are recorded on an accrual basis. The accrued benefit obligation and current service costs are calculated using the projected benefit method prorated on service and based on assumptions that reflect Hydro Ottawa's best estimates. The utility tracks the difference between the forecast accrual amount in

rates and actual cash payments in a variance account, as set out in the OEB report.

18 19

Hydro Ottawa confirms that it is recording amounts into the tracking account for the purpose of recording carrying charges. The utility further confirms that carrying charges are being calculated using the OEB-prescribed Construction Work in Progress ("CWIP") rate.

23

24 **4.3.** REGULATORY ASSETS FOR RETAIL SERVICE CHARGES INCREMENTAL 25 REVENUE

As part of the Approved Settlement Agreement, Hydro Ottawa received approval for utility-specific Retail Service Charges ("RSCs"). Subsequently, on November 29, 2018, the OEB issued a Report

28 on Energy Retailer Services Charges, which stated that updated RSCs would be established and



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1 applied to all electricity distributors. 77 The report specifically indicated that the updated RSCs

2 would apply to Hydro Ottawa. The Decision and Rate Order for the new RSCs had an effective

3 date of May 1, 2019.78 The OEB issued a Decision and Rate Order on November 28, 2019 with

4 updated rates for RSCs effective January 1, 2020.79

5

6 As per the OEB's Decision and Order regarding energy retailer service charges, Hydro Ottawa is

7 recording the difference between revenues collected at the previously approved charges and the

8 revenue collected based on the charges established pursuant to the OEB report.80 As Hydro

9 Ottawa has discontinued recording amounts into the Retail Cost and Variance Accounts

("RCVAs") 1518 and 1548, consistent with OEB direction, the utility has set up a sub-account

under 1508 Other Regulatory Assets for Retail Service Charges Incremental Revenue.

12

13 4.4. REGULATORY ASSET FOR ACCOUNT 1509 - IMPACTS ARISING FROM THE **COVID-19 EMERGENCY** 14

15 On March 25, 2020, the OEB issued an accounting order for the establishment of deferral accounts to record impacts arising from the COVID-19 Emergency.81 The OEB established Account 1509 - Impacts Arising from the COVID-19 Emergency, which includes three sub-accounts. The sub-accounts are for costs associated with billing and system changes related to the Government of Ontario's emergency order regarding time-of-use pricing,82 lost revenue. and other incremental costs. Hydro Ottawa intends to open these new 1509 sub-accounts, as per

21 this OEB accounting order.

²² Ontario Energy Board, Report of the Ontario Energy Board - Energy Retailer Service Charges, EB-2015-0304 23 (November 29, 2018), page 20.

⁷⁸ Ontario Energy Board, *Decision and Rate Order*, EB-2015-0304 (February 14, 2019).

²⁵ Ontario Energy Board, *Decision and Rate Order*, EB-2019-0280 (November 28, 2019), Schedule A.

²⁶ Ontario Energy Board, *Decision and Order - In the matter of energy retailer service charges effective May 1, 2019 -*

Schedule B - Accounting Order, EB-2015-0304 (February 14, 2019), pages 11-13.
 Ontario Energy Board, Accounting Order for the Establishment of Deferral Accounts to Record Impacts Arising from

the COVID-19 Emergency, (March 25, 2020).
Contario Regulation 80/20: Order under Subsection 7.0.2 (4) of the Emergency Management and Civil Protection 31 Act - Electricity Price for RPP Consumers.



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UPDATED ACCOUNT 1592 PILS AND TAX VARIANCE

2

1

3 1. INTRODUCTION

Account 1592 per the Accounting Procedures Handbook for Electricity Distributors ("APH") is used to record the tax impact of differences related to legislative or regulatory changes to tax rates or rules or disclosure of a new assessing or administrative policy published by federal or 7 provincial public tax bulletins.¹

8

For further information on the Payments in Lieu of Taxes ("PILS") impact related to utility-specific Regulatory Assets which are unrelated to changes defined as part of Account 1592 per the APH (e.g. the Earnings Sharing Mechanism), please refer to **UPDATED** Exhibit 9-1-3: Group 2 Accounts.

13

PILS ACCELERATED INVESTMENT INCENTIVE 14 **2**.

Bill C-97, also known as the Budget Implementation Act, 2019, was passed by the Parliament of Canada and received Royal Assent in June 2019. The legislation provides for accelerated Capital Cost Allowance ("CCA") deductions for eligible property available for use and acquired after November 20, 2018. The OEB released guidance on July 25, 2019 which instructed utilities to record 100% of the rule change in a Sub-Account of 1592 - PILs and Tax Variances -CCA Changes. The guidance states that "[t]he OEB therefore expects that all Utilities will record the full revenue requirement impact of any changes in CCA rules that are not reflected in base 22 rates."2

23

24 As directed, Hydro Ottawa has recorded the impact of the legislative change for 2018-2020 in

25 Sub-Account 1592 - PILs and Tax Variances - CCA Changes.³ The change in revenue

26 requirement reflected in base rates for 2018-2020 on account of accelerated CCA is

²⁷ Ontario Energy Board, *Accounting Procedures Handbook for Electricity Distributors* (December 2011)., pages

<sup>28 75-76.
29</sup> Ontario Energy Board, Letter re: Accounting Direction Regarding Bill C-97 and Other Changes in Regulatory or October 1997 (1997), page 2.

³⁰ Legislated Tax Rules for Capital Cost Allowance (July 25, 2019), page 2.
31 The amounts recorded in relation to accelerated CCA are unaudited at this time.



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- 1 summarized in Table 1 below. Originally, it was estimated that 100% of additions in 2019 and
- 2 2020 would qualify for accelerated CCA. Table 1 has been updated to reflect remeasurements
- 3 of 2019 and 2020 additions that would qualify for accelerated CCA. The percentages in Table 4
- 4 below were used to calculate the 2019 and 2020 additions that would qualify for accelerated

5 CCA.

6

9

10

11

7 Table 1 – AS ORIGINALLY SUBMITTED – Impact of Prior CCA Rules vs. Accelerated CCA

8 Rules on 2018-2020 Approved Additions

Year	Prior CCA/ECE⁴	Accelerated CCA	Difference in CCA	Difference in Grossed Up PILS
2018	\$67,087,996	\$68,120,942	\$(1,032,946)	\$(372,423)
2019	\$63,352,642	\$71,024,196	\$(7,671,554)	\$(2,765,934)
2020	\$68,644,149	\$80,183,478	\$(11,539,329)	\$(4,160,439)

Table 1 – UPDATED FOR 2019 ACTUALS – Impact of Prior CCA Rules vs. Accelerated CCA Rules on 2018-2020 Approved Additions

Year	Prior CCA/ECE	Accelerated CCA	Difference in CCA	Difference in Grossed Up PILS
2018	\$67,087,996	\$68,120,942	\$(1,032,946)	\$(372,423)
2019	\$63,352,642	\$67,213,910	(\$3,861,268)	\$(1,392,157)
2020	\$68,644,149	\$82,060,112	\$(13,415,963)	\$(4,837,048)

12

13 For the updated accelerated CCA calculations for 2018, 2019, and 2020, please refer to the following Attachments:

- Attachment 9-1-4(A): 2018 Accelerated Capital Cost Allowance Base Rates
- UPDATED Attachment 9-1-4(B): 2019 Accelerated Capital Cost Allowance Base Rates
- UPDATED Attachment 9-1-4(C): 2020 Accelerated Capital Cost Allowance Base Rates

^{19 4 &}quot;ECE" stands for eligible capital expenditure.



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- 1 Table 2 provides the change in CCA (due to accelerated CCA) related to the Y Factor Variance
- 2 Account and New Facilities Deferral Account for 2019 and 2020. Please see UPDATED Exhibit
- 3 9-1-3: Group 2 Accounts for more information related to these Regulatory Accounts. Originally, it
- 4 was estimated that 28% of new additions for the New Facilities in 2019 would qualify for
- 5 accelerated CCA. This estimate has been updated, with approximately 40% of new additions for
- 6 the New Facilities in 2019 set to qualify for accelerated CCA.

8 Table 2 – AS ORIGINALLY SUBMITTED – Impact of Prior CCA Rules vs. Accelerated CCA 9 Rules on New Facilities (\$66M & \$99.5M)

Year	Prior CCA	Accelerated CCA	Difference in CCA	Difference in Grossed Up PILS	
Y Factor Variance Account - Up to \$66.0M					
2019	\$1,456,868	\$2,386,787	\$(929,919)	\$(335,277)	
2020	\$2,791,754	2,718,735	\$73,019	\$26,327	
New Facilities Defe	New Facilities Deferral Account - Above \$66.0M				
2019	\$2,423,534	\$3,883,127	\$(459,593)	\$(526,248)	
2020	\$4,647,395	\$4,532,786	\$114,609	\$41,322	

Table 2 – AS REVISED – Impact of Prior CCA Rules vs. Accelerated CCA Rules on New Facilities (\$66M & \$99.5M)

Year	Prior CCA	Accelerated CCA	Difference in CCA	Difference in Grossed Up PILS	
Y Factor Variance Account - Up to \$66.0M					
2019	\$1,456,868	\$2,386,787	\$(929,919)	\$(335,277)	
2020	\$2,791,754	2,718,735	\$73,019	\$26,327	
New Facilities Defe	New Facilities Deferral Account - Above \$66.0M				
2019	\$2,423,534	\$3,883,127	\$(1,459,593)	\$(526,248)	
2020	\$4,647,395	\$4,532,786	\$114,609	\$41,322	

¹³ A revised version of Table 2 has been included, for purposes of correcting a typo.

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Table 2 – UPDATED FOR 2019 ACTUALS – Impact of Prior CCA Rules vs. Accelerated CCA Rules on New Facilities (\$66M & \$99.5M)

Year	Prior CCA	Accelerated CCA	Difference in CCA	Difference in Grossed Up PILS	
Y Factor Variance Account - Up to \$66.0M					
2019	\$1,460,407	\$2,628,733	\$(1,168,326)	\$(421,233)	
2020	\$2,798,621	\$2,700,866	\$97,755	\$35,245	
New Facilities Defe	New Facilities Deferral Account - Above \$66.0M (\$99.5M)				
2019	\$2,427,097	\$4,368,775	\$(1,941,678)	\$(700,061)	
2020	\$4,654,309	\$4,494,400	\$159,909	\$57,654	

4 For the 2019 and 2020 accelerated CCA calculations related to the new facilities, please refer to the following UPDATED Attachments:

• UPDATED Attachment 9-1-4(F): 2019 Accelerated Capital Cost Allowance - New Facilities \$66M

 UPDATED Attachment 9-1-4(G): 2019 Accelerated Capital Cost Allowance - New Facilities \$99.5M

 UPDATED Attachment 9-1-4(H): 2020 Accelerated Capital Cost Allowance - New Facilities \$66M

• UPDATED Attachment 9-1-4(I): 2020 Accelerated Capital Cost Allowance - New Facilities \$99.5M

15
16 Table 3 below provides the change in CCA (due to accelerated CCA) related to the Connection

17 Cost Recovery Agreement ("CCRA") Payments Deferral Account for 2019 and 2020. There

were no qualifying CCRA payments made in 2018. Please see **UPDATED** Exhibit 9-1-3: Group

19 2 Accounts for more information related to this Regulatory Account.

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As noted above, it was originally estimated that 100% of CCRA additions in 2019 and 2020 would qualify for accelerated CCA. Table 3 has been updated to reflect remeasurements of 2019 and 2020 additions that would qualify for accelerated CCA. The percentages in Table 4 below were used to calculate the 2019 and 2020 CCRA additions that would qualify for accelerated CCA. The 2019 percentages were determined based on when CCRA additions became available for use in 2019 and when these 2019 CCRA additions were paid for. The 2020 percentages were determined based on when forecasted CCRA additions would become available for use in 2020 and when these 2020 forecasted CCRA additions were/would be paid for.

10

11 Table 3 – AS ORIGINALLY SUBMITTED – Impact of Prior CCA Rules vs. Accelerated CCA 12 Rules on Estimated CCRA

Year	Prior CCA	Accelerated CCA	Difference in CCA	Difference in Grossed Up PILS
2019	\$246,888	\$740,665	\$(493,777)	\$(178,028)
2020	\$504,182	\$524,993	\$(20,811)	\$(7,503)

13 14

15

Table 3 – UPDATED FOR 2019 ACTUALS – Impact of Prior CCA Rules vs. Accelerated CCA Rules on Estimated CCRA

Year	Prior CCA	Accelerated CCA	Difference in CCA	Difference in Grossed Up PILS
2019	\$246,888	\$379,615	\$(132,727)	(\$47,853)
2020	\$504,182	\$497,546	\$6,636	\$2,392

16

For the accelerated CCA calculations for 2019 and 2020 related to CCRA payments, please refer to the following UPDATED Attachments:

1920

- UPDATED Attachment 9-1-4(D): 2019 Accelerated Capital Cost Allowance CCRA
- UPDATED Attachment 9-1-4(E): 2020 Accelerated Capital Cost Allowance CCRA



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1 3. PROPOSED DISPOSAL TREATMENT

Hydro Ottawa proposes to clear 100% of the 2018-2020 balances related to the revenue requirement impact to customers due to accelerated CCA as part of this Application, with the exception of the CCRA Account. The amounts provided in this Schedule related to CCRA payments are based on estimates. As a result, Hydro Ottawa proposes to clear the impact of accelerated CCA related to CCRA on audited balances per the typical Group 2 disposal process. Please refer to UPDATED Exhibit 9-3-1: Disposition of Deferral and Variance Accounts for further details, including information related to Hydro Ottawa's proposed Regulatory Account disposals.

10

Accelerated CCA impacts related to Hydro Ottawa's utility-specific Regulatory Assets that record revenue requirements which are not included in 2016-2020 base rates are not part of the revenue requirement calculations which are included in the accelerated CCA Sub-Account of 1592. Specifically, these utility-specific accounts are Y Factor Variance Account - Existing Facilities, New Facilities Deferral Account, and CCRA Payments Account. Please refer to UPDATED Exhibit 9-1-3: Group 2 Accounts for additional details.

17

In addition, for an explanation as to why the Sub-Account of 1592 - PILs and Tax Variances - CCA Changes does not balance with Hydro Ottawa's 2018 Reporting and Record Keeping Requirements ("RRR") filings, please see UPDATED Exhibit 9-1-1: Summary of Current Deferral

21 and Variance Accounts.



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Table 4 – Percentage of Capital Assets Qualifying for Accelerated CCA in 2019 & 2020

UCC (Tax) Class	2019 FRP Assets	2019 Non-FRP Assets	2020 Non-FRP Assets
1 (b)	40.00%	-	98.15%
8	40.00%	100.00%	98.69%
10	-	84.05%	100.00%
12	-	-	100.00%
14.1	-	26.88%	-
17	40.00%	-	-
47	40.00%	66.92%	92.96%
50	40.00%	74.70%	100.00%

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			-																		90 1 01 1
(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)		(7) Amount from column that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 5)	column 6 minus column 3 plus column	acquired during the year (column 4 minus	2023 no more 1.5 times, but half year rule still suspended)	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AliP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 7 minus column 7 minus column 8 if of the column 8 if of megative, enter "0")	(14) CGA Rate %	(15) Recapture of CCA	(16) Terminal Loss	CCA (177). CCA (for declining balance method, the result of column 9 plus column 72 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1 1	Buildings, Distribution System (acq'd post 1987)	B8	S 164.037.375							s 164.037.375	s -	s -	0.50	s -	s -	4%			\$ 6.561.495		\$ 157,475,880
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8	S 27.661.184	860.917	0					\$ 28.522.101	s -	s -	0.50	s -	\$ 430,459	6%			\$ 1.685.499		\$ 26,836,602
	Distribution System (acq'd pre 1988)	B8	\$ 49,578,031							\$ 49,578,031	s -	s -	0.00	s -	s -	6%			\$ 2,974,682		\$ 46,603,349
	Buildings (acq'd pre 1988)	B8	\$ 7,879,357							\$ 7,879,357	\$ -	\$ -	0.00	\$ -	s -	5%			\$ 393,968		\$ 7,485,389
6 (Certain Buildings; Fences	B8	\$ -							s -	\$ -	\$ -	0.50	s -	s -	10%			s -		\$ -
8 (General Office Equipment, Furniture, Fixtures	B8	\$ 14,476,683	3,095,502	3,095,502					\$ 17,572,185	\$ -	\$ 3,095,502	0.50	\$ 1,547,751	s -	20%			\$ 3,823,987		\$ 13,748,198
10	Motor Vehicles, Fleet	B8	\$ 4,101,604	1,479,811	1,243,781					\$ 5,581,415	\$ -	\$ 1,243,781	0.50	\$ 621,891	\$ 118,015	30%			\$ 1,825,587		\$ 3,755,828
10.1	Certain Automobiles	B8	\$ -							s -	\$ -	\$ -	0.50	s -	s -	30%			s -		\$ -
12	Computer Application Software (Non-Systems)	<u>B8</u>	\$ 2,012,402	4,325,277	0					\$ 6,337,679	\$ -	\$ -	0.00	\$ -	\$ 2,162,639	100%			\$ 4,175,041		\$ 2,162,639
13 1	Lease # 1	B8	\$ -							s -		\$ -	0.00	\$ -	\$ -	NA					\$ -
13 2 I		<u>B8</u>	\$ -							s -	\$ -	\$ -	0.00		s -	NA					\$ -
13 3	Lease # 3	B8	\$ -							s -		\$ -	0.00	\$ -	\$ -	NA					\$ -
13 4	Lease # 4	<u>B8</u>	\$ -							s -		\$ -	0.00	\$ -	\$ -	NA					\$ -
14	Limited Period Patents, Franchises, Concessions or Licences	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.00		\$ -	NA					\$ -
	Eligible Capital Property (acq'd pre Jan 1, 2017)	<u>B8</u>	\$ 10,901,634							\$ 10,901,634	\$ -		0.00		s -	7%			\$ 763,114		\$ 10,138,519
	Eligible Capital Property (acq'd post Jan 1, 2017)	<u>B8</u>	\$ 380,744	56,723	15,247					\$ 437,467	\$ -	\$ 15,247			\$ 20,738	5%			\$ 21,218		\$ 416,249
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.50		s -	8%			s -		\$ -
	Fibre Optic Cable	<u>B8</u>	\$ 222,899							\$ 222,899	\$ -	\$ -	0.50		s -	12%			\$ 26,748		\$ 196,151
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ -							s -	\$ -	\$ -	2.33		s -	30%			s -		\$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ -							s -	\$ -	\$ -	1.00		s -	50%			s -		\$ -
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	<u>B8</u>	\$ 2,392							\$ 2,392	\$ -	\$ -	0.00	s -	s -	45%			\$ 1,076		\$ 1,316
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>B8</u>	\$ -							s -	\$ -		0.00		s -	30%			s -		\$ -
	Distribution System (acq'd post Feb 22/05)	<u>B8</u>	\$ 481,541,809	52,817,278	35,345,322					\$ 534,359,087	\$ -				\$ 8,735,978	8%			\$ 43,463,662		\$ 490,895,425
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>	\$ 1,599,978	900,848	672,933					\$ 2,500,826	\$ -	\$ 672,933	0.50		\$ 113,957	55%			\$ 1,497,834		\$ 1,002,991
95	CWIP	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.00	\$ -	s -	0%			s -		\$ -
		<u>B8</u>	\$ -							s -	\$ -	\$ -		\$ -	s -						\$ -
		<u>B8</u>	\$ -							s -	ş -	ş -		\$ -	s -						s -
		<u>B8</u>	\$ -							s -	ş -			\$ -	s -						s -
		<u>B8</u>	s -							s -	\$ -	s -		\$ -	s -						\$ -
		<u>B8</u>	s -							s -	\$ -	s -		\$ -	s -						\$ -
		<u>B8</u>	s -							s -	\$ -	s -		\$ -	s -						\$ -
		<u>88</u>	s -							s -	\$ -	s -		\$ -	s -						\$ -
		<u>88</u>	s -							s -	\$ -			\$ -	s -						\$ -
	TOTALS		\$ 764,396,091	\$ 63,536,356	\$ 40,372,786	\$ -	\$ -	\$-	\$ -	\$ 827,932,447	\$ -	\$ 40,372,786		\$ 20,186,393	\$ 11,581,785		\$ -	\$ -	\$ 67,213,910	<u>T1</u>	\$ 760,718,536

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(1) Class	Class Description	Working Paper Reference	beginning of the tes	the year (new	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	received or receivable during the year for a	(7) mount from column that is repaid during the year for a roporty, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 8 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	additions of AIIP acquired during the year (column 4 minu column 10) (if negative, enter "0")	rule still suspended)	(12) UCC adjustment for AllP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 7 minus column 8 minus column 9 minus column	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	CCA (17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, metholiside by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	B8	\$ 157,475,880							\$ 157,475,880	\$ -	\$ -	0.50	s -	s -	4%			\$ 6,299,035		\$ 151,176,845
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8	\$ 26,836,602	7,064,568	6,933,873					\$ 33,901,170	\$ -	\$ 6,933,873	0.50	\$ 3,466,937	\$ 65,347	6%			\$ 2,238,166		\$ 31,663,005
	Distribution System (acq'd pre 1988)	<u>B8</u>	\$ 46,603,349							\$ 46,603,349	\$ -	\$ -	0.00		s -	6%			\$ 2,796,201		\$ 43,807,148
	Buildings (acq'd pre 1988)	<u>B8</u>	\$ 7,485,389	1						\$ 7,485,389	\$ -	\$ -	0.00		s -	5%			\$ 374,269		\$ 7,111,120
6	Certain Buildings; Fences	<u>B8</u>	\$ -							s -	\$ -		0.50	s -	s -	10%			s -		\$ -
	General Office Equipment, Furniture, Fixtures	<u>B8</u>	\$ 13,748,198	4,684,276	4,622,912					\$ 18,432,474	\$ -					20%			\$ 4,142,650		\$ 14,289,824
10	Motor Vehicles, Fleet	<u>B8</u>	\$ 3,755,828	1,572,486	1,572,486					\$ 5,328,314	\$ -	\$ 1,572,486			s -	30%			\$ 1,834,367		\$ 3,493,947
	Certain Automobiles	<u>88</u>	\$ -							s -	\$ -	\$ -	0.50		s -	30%			s -		\$ -
	Computer Application Software (Non-Systems)	<u>B8</u>	\$ 2,162,639	11,398,852	11,398,852					\$ 13,561,491	\$ -	\$ 11,398,852	0.00		s -	100%			\$ 13,561,491		\$ -
	Lease #1	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Lease # 2	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Lease # 3	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Lease # 4	<u>88</u>	\$ -							s -	\$ -	\$ -	0.00		s -	NA					\$ -
14	Limited Period Patents, Franchises, Concessions or Licences	<u>B8</u>	s -							s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Eligible Capital Property (acq'd pre Jan 1, 2017)	<u>B8</u>	\$ 10,138,519							\$ 10,138,519	\$ -	\$ -	0.00		s -	7%			\$ 709,696		\$ 9,428,823
	Eligible Capital Property (acq'd post Jan 1, 2017)	<u>B8</u>	\$ 416,249	89,596	0					\$ 505,845	\$ -	\$ -	0.50	s -	\$ 44,798	5%			\$ 23,052		\$ 482,793
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	<u>B8</u>	\$ -							s -	\$ -	\$ -	0.50		s -	8%			s -		\$ -
	Fibre Optic Cable	<u>B8</u>	\$ 196,151							\$ 196,151	\$ -	\$ -	0.50		s -	12%			\$ 23,538		\$ 172,613
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ -							s -	\$ -	\$ -	2.33	s -	s -	30%			\$ -		\$ -
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>	\$ -							s -	\$ -	\$ -	1.00		s -	50%			s -		\$ -
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	<u>B8</u>	\$ 1,316							\$ 1,316	\$ -	\$ -	0.00	s -	s -	45%			\$ 592		\$ 724
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>88</u>	\$ -							s -	\$ -	\$ -	0.00		s -	30%			s -		\$ -
	Distribution System (acq'd post Feb 22/05)	<u>88</u>	\$ 490,895,425	82,851,650	77,018,894					\$ 573,747,075	\$ -		0.50			8%			\$ 48,747,212		\$ 524,999,864
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>	\$ 1,002,991	919,028	919,028					\$ 1,922,019	\$ -	\$ 919,028	0.50		s -	55%			\$ 1,309,843		\$ 612,176
95	CWIP	<u>B8</u>	s -							s -	\$ -	\$ -	0.00	s -	s -	0%			s -		\$ -
		<u>B8</u>	\$ -							s -	\$ -	\$ -		s -	s -						\$ -
		<u>88</u>	\$ -							s -	\$ -	\$ -		s -	s -						\$ -
		<u>88</u>	\$ -							s -	\$ -	\$ -		s -	s -						s -
		<u>B8</u>	s -							s -	\$ -	s -		\$ -	s -						\$ -
		<u>B8</u>	\$ -							s -	\$ -	\$ -		s -	s -						\$ -
		<u>B8</u>	\$ -							s -	\$ -	\$ -		s -	s -						\$ -
		<u>B8</u>	s -							s -	\$ -	s -		\$ -	s -						\$ -
		<u>B8</u>	\$ -							s -	\$ -			\$ -							\$ -
	TOTALS		\$ 760,718,536	\$ 108,580,456	\$ 102,466,045	\$	\$ - 5		\$ -	\$ 869,298,992	\$ -	\$ 102,466,045		\$ 45,533,597	\$ 3,057,205		\$ -	\$ -	\$ 82,060,112	<u>T1</u>	\$ 787,238,880

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(1) Class	Class Description	Working Paper Reference	(2) Undepreciated cost (UCC) at beginning of th	the the year (r	from column 3 are accelerat investment ince r use,	hat transfers (enter d amounts that w tive reduce the UCC	received or receivable	Amount from column 5 that is repaid during the year for a	(8) Proceeds of dispositions	column 3 plus or minus column 5	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 7 (if negative, enter "0")	acquired during the year (column 4 minus column 10) (if	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 8 minus column 9 minus column	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	CCA (17) CCA (for declining balance method, the result of column 12 minus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	B8								s -	\$ -	\$ -	0.50	\$ -	s -	4%			s -		\$ -
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8								s -	\$ -	\$ -	0.50	s -	s -	6%			s -		\$ -
2	Distribution System (acq'd pre 1988)	B8								s -	\$ -	\$ -	0.50	s -	s -	6%			s -		\$ -
3	Buildings (acq'd pre 1988)	<u>B8</u>								s -	\$ -	\$ -	0.00	\$ -	s -	5%			s -		\$ -
6	Certain Buildings; Fences	B8								s -	\$ -	\$ -	0.50	\$ -	s -	10%			s -		\$ -
8	General Office Equipment, Furniture, Fixtures	B8								s -	\$ -	\$ -	0.50	\$ -	s -	20%			s -		\$ -
10	Motor Vehicles, Fleet	B8								s -	\$ -	\$ -	0.50	\$ -	s -	30%			s -		\$ -
	Certain Automobiles	<u>B8</u>								s -	\$ -	\$ -	0.50		s -	30%			s -		\$ -
	Computer Application Software (Non-Systems)	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	100%			s -		\$ -
	Lease # 1	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	NA					\$ -
13 2		<u>B8</u>								s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Lease # 3	<u>B8</u>								s -	\$ -	\$ -	0.00	s -	s -	NA					\$ -
	Lease # 4	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Limited Period Patents, Franchises, Concessions or Licences	<u>B8</u>								s -	s -	\$ -	0.00		s -	NA					\$ -
	Eligible Capital Property (acq'd pre Jan 1, 2017)	<u>B8</u>								s -	s -		0.00		s -	7%			s -		\$ -
	Eligible Capital Property (acq'd post Jan 1, 2017)	<u>B8</u>		9,8	5,528 2,654	542				\$ 9,875,528	s -	\$ 2,654,542	0.50		\$ 3,610,493	5%			\$ 379,615		\$ 9,495,913
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	<u>B8</u>								s -	s -	\$ -	0.50		s -	8%			s -		\$ -
	Fibre Optic Cable	<u>B8</u>								s -	s -	\$ -	0.50		s -	12%			s -		\$ -
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>								s -	s -	\$ -	2.33		s -	30%			s -		\$ -
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>								s -	s -	\$ -	1.00		s -	50%			s -		\$ -
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	<u>B8</u>								s -	s -	\$ -	0.00		s -	45%			s -		\$ -
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>B8</u>								s -	s -	\$ -	0.00		s -	30%			s -		\$ -
	Distribution System (acq'd post Feb 22/05)	<u>B8</u>								s -	s -		0.50		s -	8%			s -		\$ -
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>								s -	s -	\$ -	0.50		s -	55%			s -		\$ -
95	CWIP	<u>B8</u>	\$							s -	s -	\$ -	0.00	\$ -	s -	0%			s -		\$ -
		<u>B8</u>	\$							s -	s -	\$ -		\$ -	s -						\$ -
		<u>B8</u>	\$							s -	s -	\$ -		\$ -	s -						\$ -
		<u>B8</u>	\$							s -	s -			\$ -	s -						\$ -
		<u>B8</u>	\$							s -	\$ -	\$ -		s -	s -						s -
		B8	\$							s -	\$ -	\$ -		s -	s -						s -
		<u>B8</u>	\$							s -	\$ -	\$ -		s -	s -						s -
		<u>B8</u>	\$							s -	\$ -	\$ -		s -	s -						s -
		<u>B8</u>	\$							s -	\$ -			\$ -	s -						\$ -
1	TOTALS		\$	- \$ 9,87	5,528 \$ 2,654	42 \$	- \$ -	\$ -	\$ -	\$ 9,875,528	\$ -	\$ 2,654,542		\$ 1,327,271	\$ 3,610,493		\$ -	\$ -	\$ 379,615	<u>T1</u>	\$ 9,495,913

Hydro Ottawa Limited
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Exhibit 9
Tab 1
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																					igo i oi i
(1) Class	Class Description	Working Paper Reference	Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	the year for a	(8) Proceeds of dispositions	(9) UCG (column 2 plus column 3 plus or minus column 6 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 6 plus column 6 minus column 7) (if negative, enter "0")	acquired during the year (column 4 minus column 10) (if		(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 7 minus column 6 proper (17)	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	B8								s -	\$ -	\$ -	0.50		s -	4%			s -		٠ .
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8								s -	\$ -	\$ -	0.50	s -	s -	6%			s -		٠ .
2	Distribution System (acq'd pre 1988)	B8								s -	\$ -	\$ -	0.50		s -	6%			s -		\$ -
3	Buildings (acq'd pre 1988)	<u>B8</u>								s -	\$ -	\$ -	0.00	s -	s -	5%			s -		\$ -
6	Certain Buildings; Fences	B8								s -	\$ -	\$ -	0.50	s -	s -	10%			s -		\$ -
8	General Office Equipment, Furniture, Fixtures	B8								s -	s -	s -	0.50	s -	s -	20%			s -		s -
	Motor Vehicles, Fleet	B8								s -	s -	s -	0.50	s -	s -	30%			s -		s -
10.1	Certain Automobiles	B8								s .	. 2	. 2	0.50	s .	s .	30%			s .		. 2
12	Computer Application Software (Non-Systems)	B8								s -	s -	s -	0.00		s -	100%			s -		s -
13 1	Lease # 1	B8								s -	s -	s -	0.00	s -	s -	NA					s -
13.2	Lease # 2	B8								s .	. 2	. 2	0.00	s .	s .	NΔ					. 2
	Lease # 3	B8								s .	s .	s .	0.00	s .	s .	NΔ					s -
	Lease # 4	B8								s .	s -	s .	0.00		s .	NΔ					s -
	Limited Period Patents, Franchises, Concessions or Licences	B8								s -	s -	s -	0.00		s -	NA.					s -
14.1	Eligible Capital Property (acc'd pre Jan 1, 2017)	B8								s .	. 2	. 2	0.00	s .	s .	7%			s .		. 2
	Eligible Capital Property (acq'd post Jan 1, 2017)	B8	9 495 913	910 000	0					\$ 10,405,913	s -	s .	0.50	s .	\$ 455,000	5%			\$ 497.546		\$ 9,908,367
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	0,700,070	0.0,000						\$	s .		0.50		9 .	8%			e .		\$.
	Fibre Optic Cable	B8								s .	s .	¢ .	0.50		-	12%					s -
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	B8								s .	\$.	¢ .	2.33			30%			e .		\$.
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8								s .	s .	¢ .	1.00		s .	50%					s -
	Computers & System Software (accid post Mar 22/04 and pre Mar 19/07)	B8								s .	\$.		0.00			45%					s .
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	B8								s -	s .	*	0.00		s .	30%					s -
	Distribution System (acq'd post Feb 22/05)	B8								s .	s .		0.50			8%					s .
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	B8								s .	s -		0.50			55%					s -
95		B8	e							s .	s .		0.00			0%					s .
95	CWIP	B8								9 -	s .		0.00	s .		0%					\$.
		B8	3 .								s .			-							*
		88 88	\$.							s -	-	*		s -	s -						\$ -
		88 88	\$.							s .	\$ -			s -	s -						\$ -
		88 88								s -	s -			*	-						\$ -
-		<u>B8</u>	\$.				l			s -	s -	2 -		s -	s -				l		s -
		88	\$ -							s -	\$ -	\$ -		s -	s -						s -
		88	\$ -							\$ -	\$ -	\$ -		s -	\$ -						s -
		<u>B8</u>	\$ -							\$ -	\$ -			s -	s -						\$ - \$ 9.908.367
	TOTALS		\$ 9,495,913	\$ 910,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,405,913	\$ -	\$ -	l	\$ -	\$ 455,000		\$ -	\$ -	\$ 497,546	<u>T1</u>	\$ 9,908,367

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																				1 0	ige i oi i
(1) Class	Class Description	Working Pape Reference	27 Undepreciated cap cost (UCC) at the beginning of the triples	the year (new	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	received or receivable	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	column 3 plus columi	additions of AIIP acquired during the year (column 4 minu column 10) (if negative, enter "0"	ıs	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 7 minus column 8 minus column 9 minus column	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for decilining balance method, the result of column 9 plus column 12 minu column 13, multiplic by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	<u>B8</u>								s -	\$ -	\$ -	0.50	s -	s -	4%			s -		\$ -
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8								s -	\$ -	\$ -	0.50	s -	s -	6%			s -		\$ -
	Distribution System (acq'd pre 1988)	<u>B8</u>		40,138,958	16,055,583					\$ 40,138,958	\$ -	\$ 16,055,583			\$ 12,041,687	6%			\$ 2,167,504		\$ 37,971,454
	Buildings (acq'd pre 1988)	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	5%			s -		\$ -
	Certain Buildings; Fences	<u>B8</u>								s -	\$ -		0.50		s -	10%			s -		\$ -
	General Office Equipment, Furniture, Fixtures	<u>B8</u>		2,196,866	878,746					\$ 2,196,866	\$ -	\$ 878,746			\$ 659,060	20%			\$ 395,436		\$ 1,801,430
	Motor Vehicles, Fleet	<u>B8</u>								s -	\$ -	\$ -	0.50		s -	30%			s -		\$ -
	Certain Automobiles	<u>88</u>								s -	\$ -	\$ -	0.50		s -	30%			s -		\$ -
	Computer Application Software (Non-Systems)	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	100%			s -		\$ -
	Lease # 1	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Lease # 2	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Lease # 3	<u>B8</u>								s -	\$ -	\$ -	0.00	s -	s -	NA					\$ -
	Lease # 4	<u>88</u>								s -	\$ -	\$ -	0.00		s -	NA					\$ -
	Limited Period Patents, Franchises, Concessions or Licences	<u>B8</u>								s -	s -	s -	0.00		s -	NA					\$ -
	Eligible Capital Property (acq'd pre Jan 1, 2017)	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	7%			s -		\$ -
	Eligible Capital Property (acq'd post Jan 1, 2017)	<u>B8</u>								s -	\$ -		0.50		s -	5%			s -		\$ -
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	<u>B8</u>		749,862	299,945					\$ 749,862	\$ -	\$ 299,945			\$ 224,959	8%			\$ 53,990		\$ 695,872
	Fibre Optic Cable	<u>B8</u>								s -	\$ -	\$ -	0.50		s -	12%			s -		\$ -
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>								s -	\$ -	\$ -	2.33		s -	30%			s -		\$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>								s -	\$ -	\$ -	1.00		s -	50%			s -		\$ -
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	45%			s -		\$ -
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	30%			s -		\$ -
	Distribution System (acq'd post Feb 22/05)	<u>B8</u>								s -	\$ -		0.50			8%			s -		\$ -
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>		23,846	9,538					\$ 23,846	\$ -	\$ 9,538			\$ 7,154	55%			\$ 11,804		\$ 12,042
95	CWIP	<u>B8</u>	\$ -							s -	s -	s -	0.00	s -	s -	0%			s -		\$ -
		<u>B8</u>	\$ -							\$ -	\$ -	\$ -		\$ -	s -						\$ -
		<u>B8</u>	\$ -							s -	s -			s -	s -						\$ -
		<u>B8</u>	\$ -							s -	\$ -			s -	s -						s -
		<u>B8</u>	\$ -							s -	\$ -	*		s -	s -						s -
		<u>B8</u>	\$ -							s -	\$ -	\$ -		s -							\$ -
		<u>B8</u>	\$ -							s -	\$ -			s -	*						s -
		<u>B8</u>	\$ -							s -	\$ -			\$ -							\$ -
		<u>B8</u>	\$ -							s -	\$ -			s -	\$ -						\$ -
	TOTALS	l	\$ -	\$ 43,109,532	\$ 17,243,813	\$ -	\$ -	\$ -	\$ -	\$ 43,109,532	\$ -	\$ 17,243,813	1	\$ 8,621,906	\$ 12,932,860		\$ -	\$ -	\$ 2,628,733	<u>T1</u>	\$ 40,480,799

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(1) Class	Class Description	Working Pap Reference	cos	(2) preclated capital at (UCC) at the uning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	the year for a	(8) Proceeds of dispositions	column 3 plus or minus column 5	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7 (if negative, enter "0")	acquired during the year (column 4 minus column 10) (if	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AliP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	CCA (17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	B8									s -	\$ -	\$ -	0.50		\$ -	4%			s -		\$ -
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8									s -	\$ -	\$ -	0.50	s -	s -	6%			s -		\$ -
2	Distribution System (acq'd pre 1988)	B8			67.496.787	26.998.715					\$ 67.496.787	s -	\$ 26,998,715	0.50	\$ 13,499,357	\$ 20,249,036	6%			S 3.644.826		\$ 63.851.961
3	Buildings (acq'd pre 1988)	B8									s -	\$ -	\$ -	0.00	s -	s -	5%			s -		\$ -
	Certain Buildings; Fences	B8									s -	s -	s -	0.50	s -	s -	10%			s -		s -
	General Office Equipment, Furniture, Fixtures	B8			3.448.213	1.379.285					S 3.448.213	s -	\$ 1,379,285	0.50	S 689.643	S 1.034.464	20%			S 620.678		\$ 2.827.535
	Motor Vehicles. Fleet	B8									s .	s .	. 2	0.50	s .	s .	30%			s .		. 2
	Certain Automobiles	B8									s .	s .	s .	0.50		s .	30%			s .		s -
	Computer Application Software (Non-Systems)	B8									s -	s -	s -	0.00		s -	100%			s -		s -
13.1	l ease # 1	B8									s .	s .	. 2	0.00	s .	s .	NΔ					s .
13 2	Lease # 2	B8									s .	s .	s .	0.00	s .	s .	NΔ					s -
	Lease # 3	B8									s .	s -	s .	0.00	s .	s .	NΔ					s -
13 4	Lease # 4	B8									s .	s .	s .	0.00		s .	NΔ					s -
14	Limited Period Patents, Franchises, Concessions or Licences	B8									s .	s -	s .	0.00		s .	NΔ					s -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	B8									s .	s -	. 2	0.00	s -	s .	7%			s .		s -
	Eligible Capital Property (acg'd post Jan 1, 2017)	B8									s .	s .		0.50		s .	5%			s .		s .
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	B8			1 176 987	470,795					\$ 1176 987	s .	\$ 470.795	0.50	\$ 235,397	\$ 353.096	8%			\$ 84.743		\$ 1.092.244
	Fibre Optic Cable	B8			1,170,007	470,750					s	s .	\$ 410,155	0.50		\$	12%			9 04,740		\$
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8									s .	s .		2.33		s .	30%			s .		\$.
	Certain Clean Energy/Energy-Efficient Generation Equipment	88									s -	s -		1.00		s .	50%			s .		s -
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	B8									s -	s -		0.00			45%			s .		s -
	Data Network Infrastructure Equipment (acg'd post Mar 22/04)	B8									s -	s -		0.00			30%			s -		s -
47	Distribution System (acq'd post Feb 22/05)	B8									s -	s -	s -	0.50	s -	s -	8%			s -		s -
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	B8			37.429	14.972					\$ 37,429	\$ -	\$ 14.972	0.50	\$ 7.486	\$ 11,229	55%			S 18.527		\$ 18,902
95		B8	s								s -	s -		0.00			0%			s -		s -
		B8	s								s -	s -	s -		s -	s -						s -
		B8	s								s -	s -	s -		s -	s -						s -
		B8	\$	-							s -	\$ -	\$ -		s -	s -						s -
		B8	\$	-							s -	\$ -	\$ -		s -	s -						\$ -
		B8	\$	-							s -	\$ -	\$ -		s -	s -						\$ -
		B8	\$	-							s -	\$ -			s -	s -						\$ -
		B8	\$	-							s -	\$ -	s -		s -	\$ -						\$ -
		B8	\$	-							s -	\$ -	\$ -		s -	\$ -						\$ -
	TOTALS		\$	-	\$ 72,159,416	\$ 28,863,766	\$ -	\$ -	s -	s -	\$ 72,159,416	\$ -	\$ 28,863,766		\$ 14,431,883	\$ 21,647,825		\$ -	\$ -	\$ 4,368,775	<u>T1</u>	\$ 67,790,641
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(1) Class	Class Description	Working Paper Reference	Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)		additions of AIIP acquired during the year (column 4 minu column 10) (if		(12) UCC adjustment for AllP acquired during the year (column 11 multiplied by the relevant factor)	UCC adjustment for non-All [®] acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 6 minus column 6 properties or minus column 8 (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	B8								s -	\$ -	\$ -	0.50	s -	٠ .	4%			s -		\$ -
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8								s -	\$ -	\$ -	0.50	s -	s -	6%			s -		\$ -
2	Distribution System (acq'd pre 1988)	B8	S 37.971.454							S 37.971.454	s -	s -	0.50	s -	s -	6%			S 2.278.287		\$ 35.693.167
	Buildings (acq'd pre 1988)	B8								s -	\$ -	\$ -	0.00	s -	s -	5%			s -		\$ -
6	Certain Buildings; Fences	B8								s -	s -	s -	0.50	s -	s -	10%			s -		s -
	General Office Equipment, Furniture, Fixtures	B8	S 1.801.430							\$ 1.801.430	s -	s -	0.50	s -	s -	20%			\$ 360,286		S 1.441.144
	Motor Vehicles, Fleet	B8								s -	s -	s -	0.50	s -	s -	30%			s -		s -
10.1	Certain Automobiles	B8								s .	s .	\$.	0.50	s .	s .	30%			s .		s .
12	Computer Application Software (Non-Systems)	B8								s -	s -	s -	0.00		s -	100%			s -		s -
13 1	Lease # 1	B8								s -	s -	s -	0.00	s -	s -	NA					s -
13.2	Lease # 2	B8								s -	s -	s -	0.00	s -	s -	NA					s -
13 3	Lease #3	B8								s .	s .	\$.	0.00	s .	s .	NΔ					s -
13 4	Lease # 4	B8								s -	s -	s .	0.00		s .	NΔ					s -
14	Limited Period Patents, Franchises, Concessions or Licences	B8								s -	s -		0.00		s -	NA.					s -
14.1	Eligible Capital Property (acc'd pre Jan 1, 2017)	B8								s -	s -	s -	0.00	s -	s -	7%			s -		s -
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	B8								s -	s -	s -	0.50	s -	s -	5%			s -		s -
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	\$ 695,872							\$ 695.872	s .	\$.	0.50	s .	s .	8%			\$ 55,670		\$ 640,202
	Fibre Optic Cable	B8								\$.	s -	s .	0.50	s .	s .	12%			s .		s -
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	B8								s -	s -		2.33		s -	30%			s -		s -
	Certain Clean Energy/Energy-Efficient Generation Equipment	B8								s .	s -	\$.	1.00	s .	s .	50%			s .		s -
45	Computers & System Software (acg'd post Mar 22/04 and pre Mar 19/07)	B8								s .	s .	\$.	0.00	s .	s .	45%			s .		s .
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	B8								s -	s -	\$.	0.00	s .	s .	30%			s .		s -
	Distribution System (acq'd post Feb 22/05)	B8								s .	s .		0.50		s .	8%			s .		s .
	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	B8	S 12.042		0					S 12.042	s -	s -	0.50	s -	s -	55%			S 6.623		\$ 5,419
95		B8	s -							s -	s -	s -	0.00	s -	s -	0%			s -		s -
		B8	. 2							s .	s .	\$.		s .	s .						s .
		B8	s .							s .	s .	s .		s .	s .						s .
		B8	s .							s .	s .	s .		s .	s .						s -
		B8	s .							s -	s .			s -	s -						s -
		B8	s -							s -	s -			s -	s -						s -
		B8	s -							s -	s -	s -		s -	s -						s -
		B8	s -							s -	s -	s -		s -	s -						s -
		B8	s -							s -	s -	s -		s -	s -						s -
	TOTALS		\$ 40 480 799	s .	s .	s .	s .	s .	s .	\$ 40,480,799	s .	\$.		s .	s .		s .	s .	\$ 2,700,866	T1	\$ 37,779,932

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																					age i oi i
(1) Class	Class Description	Working Paper Reference	Undepreciated capita cost (UCC) at the beginning of the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	received or receivable	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	AIIP (column 8 plus column 6 minus column 3 plus colum	additions of AlIP acquired during the year (column 4 minu column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 6 plus column 7 minus column 6 plus column 7 minus column 8 minus column 8 minus column 8 (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declir balance method result of colum plus column 12 column 13, mult by column 14	, the n 9 ninus plied	UCC at the end of the test year (column 9 minus column 17)
	Buildings, Distribution System (acq'd post 1987)	B8								s -	\$ -	\$ -	0.50	s -	s -	4%			\$		\$ -
	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	<u>B8</u>								s -	\$ -	\$ -	0.50		s -	6%			s		\$ -
	Distribution System (acq'd pre 1988)	<u>88</u>	\$ 63,851,961							\$ 63,851,961	\$ -	\$ -	0.50		s -	6%			\$ 3,831,	.18	\$ 60,020,843
	Buildings (acq'd pre 1988)	<u>B8</u>								s -	s -	s -	0.00		s -	5%			\$		s -
	Certain Buildings; Fences	<u>B8</u>								s -	s -	s -	0.50		s -	10%			\$		s -
	General Office Equipment, Furniture, Fixtures	<u>B8</u>	\$ 2,827,535							\$ 2,827,535	s -	s -	0.50			20%			\$ 565,	07ر	\$ 2,262,028
	Motor Vehicles, Fleet	<u>B8</u>								s -	s -	s -	0.50		s -	30%			\$		s -
	Certain Automobiles	<u>B8</u>								s -	s -		0.50			30%			\$		s -
	Computer Application Software (Non-Systems)	<u>B8</u>								s -	\$ -	*	0.00		*	100%			s		\$ -
	Lease # 1	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	NA				_	s -
	Lease # 2	<u>B8</u>								s -	s -	s -	0.00		s -	NA					s -
	Lease # 3	<u>B8</u>								s -	s -	s -	0.00		s -	NA					s -
	Lease # 4	<u>B8</u>								s -	s -		0.00		s -	NA					s -
	Limited Period Patents, Franchises, Concessions or Licences	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	NA				_	s -
	Eligible Capital Property (acq'd pre Jan 1, 2017)	<u>B8</u>								s -	s -	s -	0.00		s -	7%			\$		s -
	Eligible Capital Property (acq'd post Jan 1, 2017)	<u>B8</u>								s -	\$ -	\$ -	0.50		s -	5%			s		\$ -
	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	<u>B8</u>	\$ 1,092,244							\$ 1,092,244	\$ -	\$ -	0.50	s -	s -	8%			\$ 87,	.80	\$ 1,004,864
	Fibre Optic Cable	B8								s -	\$ -	\$ -	0.50	s -	s -	12%			s	-	\$ -
	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>								s -	\$ -	\$ -	2.33		s -	30%			\$		\$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	<u>B8</u>								s -	\$ -	\$ -	1.00		s -	50%			s		\$ -
	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	<u>B8</u>								s -	\$ -	\$ -	0.00		s -	45%			\$		\$ -
	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	<u>B8</u>								s -	\$ -	\$ -	0.00			30%			S		\$ -
47	Distribution System (acq'd post Feb 22/05)	<u>B8</u>								s -	\$ -	\$ -	0.50	s -	s -	8%			s		\$ -
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	<u>B8</u>	\$ 18,902							\$ 18,902	\$ -	\$ -	0.50		s -	55%			\$ 10,	,96	\$ 8,506
95	CWIP	<u>B8</u>	s -							s -	s -		0.00			0%			\$		s -
		<u>B8</u>	\$ -							\$ -	\$ -	\$ -		s -	s -						\$ -
		<u>B8</u>	s -							s -	s -			s -							s -
		<u>B8</u>	\$ -							s -	\$ -	\$ -		s -	s -						s -
		<u>B8</u>	ş -							s -	ş -	s -		\$ -	s -						\$ -
		<u>B8</u>	\$ -							s -	\$ -			s -							s -
		<u>B8</u>	\$ -							s -	s -	\$ -		s -	s -						s -
		<u>B8</u>	\$ -							s -	\$ -	-		s -							s -
		<u>B8</u>	\$ -							\$ -	\$ -			\$ -							\$ -
	TOTALS		\$ 67,790,641	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,790,641	\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ 4,494,	.00 <u>T1</u>	\$ 63,296,241



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UPDATED DISPOSITION OF DEFERRAL AND VARIANCE ACCOUNTS

2

1

3 1. INTRODUCTION

- 4 In this Schedule, Hydro Ottawa is requesting disposition of a number of its Group 2 deferral and
- 5 variance accounts ("DVAs"), in compliance with the Electricity Distributors' Deferral and
- 6 Variance Account Review Initiative ("EDDVAR Report").

7

Details regarding DVAs can be found in the following Exhibits:

9

10

- UPDATED Exhibit 9-1-1: Summary of Current Deferral and Variance Accounts
- **UPDATED** Exhibit 9-1-2: Group 1 Accounts
- **UPDATED** Exhibit 9-1-3: Group 2 Accounts
 - UPDATED Exhibit 9-1-4: Account 1592 PILS and Tax Variance
- Exhibit 9-1-5: Retail Service Charges

15

- 16 In UPDATED Attachment 9-3-1(C): OEB Workform Account 1595, Hydro Ottawa has included
- 17 the 1595 Accounts that have not been cleared as part of prior rate applications. As part of the
- 18 proceeding for this Application, Hydro Ottawa will update the 1595 Workform model for 2019
- 19 actuals. Hydro Ottawa confirms that it has updated the 1595 Workform model for 2019 actuals,
- 20 and has also modified it in order to add a tab for 1595 Sub-Account 2018. The 1595
- 21 Sub-Accounts for all years 2016, 2017, and 2018 have been updated with 2019 actuals in
- 22 UPDATED Attachment 9-3-1(C): OEB Workform Account 1595.

23

24 2. ACCOUNTS FOR WHICH HYDRO OTTAWA IS SEEKING DISPOSITION

- 25 As part of this Application, Hydro Ottawa is requesting disposition of its Group 2 Accounts as
- 26 presented in Attachment 9-1-1(A): OEB Workform Deferral and Variance Account (Continuity
- 27 Schedule) based on December 31, 2018 audited balances and specific adjustments for 2019.
- 28 After accounting for 2019 actuals, Hydro Ottawa is requesting disposition of its Group 2
- 29 Accounts as presented in UPDATED Attachment 9-1-1(A): OEB Workform Deferral and



Hydro Ottawa Limited EB-2019-0261 Exhibit 9 Tab 3 Schedule 1 UPDATED May 5, 2020 Page 2 of 17

1 Variance Account (Continuity Schedule) based on December 31, 2019 audited balances and

2 specific adjustments for 2019 and 2020. Please refer to UPDATED Exhibit 9-1-3: Group 2

3 Accounts and UPDATED Exhibit 9-1-4: Account 1592 PILS and Tax Variance for more

4 information on the specific adjustments.

5

6 Hydro Ottawa has made a Principal Adjustment in the Other Post-Employment Benefits

7 ("OPEB") 1508 Sub-Account. This adjustment is to return these funds to customers, as they

8 were inadvertently included as a charge to customers as part of the Group 2 disposition

associated with the OEB's Decision and Order on Hydro Ottawa's 2016 rebasing application.¹

10 Please refer to cell BT53 of tab 2b. 2017 Continuity Schedule of UPDATED Attachment

9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule) for the total

12 Claim amount of \$(4.4M).

13

14 As submitted in the utility's original Application, Hydro Ottawa's last audited Group 1 balances

15 for the 2018 year-end are being cleared as part of the implementation of the utility's 2020 rates.²

16 When 2019 audited balances are available, Hydro Ottawa will update Attachment 9-1-1(A): OEB

17 Workform - Deferral and Variance Account (Continuity Schedule) and update the requested

18 disposition of Group 1 and Group 2 Accounts. With updates that include 2019 audited balances,

Hydro Ottawa has updated the proposed disposition of Group 1 and Group 2 Accounts. Please

o refer to the UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account

21 (Continuity Schedule).

22

3 The updated version of Table 1 below provides a summary of the Group 2 DVAs by Uniform

24 System of Accounts ("USofA") for which Hydro Ottawa is seeking disposition. For the completed

25 DVA Continuity Schedule, please see **UPDATED** Attachment 9-1-1(A): OEB Workform - Deferral

26 and Variance Account (Continuity Schedule).

27

²⁸ Ontario Energy Board, Decision and Rate Order, EB-2015-0004 (December 22, 2015).

²⁹ Ontario Energy Board, *Decision and Rate Order*, EB-2019-0046 (December 17, 2019), page 13.



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- 1 Per the DVA Continuity Schedule, principal balances are up to December 31, 2018 and interest
- 2 is forecasted to December 31, 2019. After accounting for 2019 actuals, principal balances are
- 3 up to December 31, 2019 and interest is forecasted to December 31, 2020. In addition, as noted
- 4 above, Hydro Ottawa has included specific adjustments related to 2019 and 2020, as follows:

5

6

7

8

10

11

12 13

- USofA 1508 Sub-account Y-Factor Variance Account
- USofA 1508 Sub-account Gains/Losses from Sale of Existing Facilities Deferral (only as originally submitted)
- USofA 1508 Sub-account New Facilities Deferral Account
 - USofA 1592 Sub-account PILS and Tax Variance for 2006 and Subsequent Years
 Sub-account CCA Changes
 - USofA 1568 Sub-account LRAM Variance Account
 - USofA 1508 Pension & Other Post-Employment Benefits ("OPEB")

14

- 15 The total net credit balance of the Group 2 DVAs for which Hydro Ottawa is seeking disposition
- 16 is \$5.8M, as originally submitted.

17

- After accounting for 2019 actuals, the total net credit balance of Group 1 and Group 2 DVAs for
- 19 which Hydro Ottawa is seeking disposition is \$6.7M.

20

- 21 As part of this Application (as originally submitted), Hydro Ottawa has provided the Global
- 22 Adjustment ("GA") Analysis Workform and GA Appendix A from its 2020 rate adjustment
- 23 application³, as the utility is using the 2018 audited financials in Attachment 9-1-1(A): 2021 DVA
- 24 Workform. These are included in this Application as Attachment 9-3-1(A): OEB Workform -
- 25 Global Adjustment Analysis and Attachment 9-3-1(B): OEB Workform Appendix Global
- 26 Adjustment Analysis. Hydro Ottawa will provide updated Attachments based on 2019 audited
- 27 financials at a later point in this proceeding.

²⁹ ³ Hydro Ottawa Limited, *2020 Electricity Distribution Rate Application*, EB-2019-0046 (August 12, 2019).



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- 1 After accounting for 2019 actuals, Hydro Ottawa is providing the Global Adjustment ("GA")
- 2 Analysis Workform and GA Appendix A using data from the 2019 audited financial statements.
- 3 These are included as UPDATED Attachment 9-3-1(A): OEB Workform Global Adjustment
- 4 Analysis and UPDATED Attachment 9-3-1(B): OEB Workform Appendix Global Adjustment
- 5 Analysis.

6

- 7 Hydro Ottawa is proposing not to dispose of Sub-Account 1508 OEB Rate Application
- 8 Deferral Account in the UPDATED Attachment 9-1-1(A): OEB Workform Deferral and Variance
- 9 Account (Continuity Schedule), as these fees are being amortized with Operations,
- Maintenance and Administration ("OM&A"), as per UPDATED Exhibit 4-2-4: Regulatory Costs,
- and thus are not included in the updated version of Table 1 below.

12



Hydro Ottawa Limited EB-2019-0261 Exhibit 9 Tab 3 Schedule 1 UPDATED May 5, 2020 Page 5 of 17

Table 1 – AS ORIGINALLY SUBMITTED – Proposed DVA Dispositions

USofA Number	Group 2 Deferral/Variance Account Description	Amount (\$)	Principal (\$)	Interest (\$)
1508	Pension & Other Post-Employment Benefits ("OPEB")	\$(272,000)	\$(272,000)	\$0
1508	Energy East Cost Defer Cost	\$54,373	\$50,731	\$3,642
1508	Y-Factor Variance Account	\$335,267	\$335,267	\$0
1508	Gains/Losses from Sale of Existing Facilities Deferral	\$(2,025,711)	\$(2,025,711)	\$0
1508	New Facilities Deferral Account	\$4,634,058	\$4,634,058	0
1508	Gains and Loss on Disposal of Fixed Assets Variance Account	\$1,413,707	\$1,360,861	\$52,846
1508	Earnings Sharing Mechanism ("ESM") Variance Account	\$(3,463,136)	\$(3,361,195)	\$(101,941)
1508	Connection Cost Recovery Agreement ("CCRA") Payment	\$169,599	\$165,621	\$3,978
1508	Efficiency Adjustment Mechanism Deferral Account	\$(576,766)	\$(558,996)	\$(17,770)
1508	OEB Cost Assessment Variance	\$1,461,471	\$1,396,210	\$65,261
1508	OPEB Differential	\$5,848	\$0	\$5,848
1508	Total of 1508 Sub-Accounts	\$1,736,710	\$1,724,845	\$11,865
1548	Retail Cost Variance - Retail	\$(42,240)	\$(39,488)	\$(2,752)
1548	Retail Cost Variance - Service Transaction Requests ("STRs")	\$336,350	\$314,009	\$22,341
1592	PILs and Tax Variances - Sub-Account: Capital Cost Allowance ("CCA") Changes	\$(8,274,555)	\$(8,092,672)	\$(181,883)
	Sub-Total Prior to Lost Revenue Adjustment Mechanism ("LRAM")	\$(6,243,735)	\$(6,093,306)	\$(150,431)
1568	LRAM Variance Account ("LRAMVA")	\$491,812	\$444,449	\$47,363
TOTAL D	VA BALANCE TO BE MOVED TO 1595 (2021) ⁴	\$(5,751,923)	\$(5,648,857)	\$(103,068)

2

1

⁴ Totals may not sum due to rounding.



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Table 1 – AS REVISED – Proposed DVA Dispositions

USofA Number	Group 2 Deferral/Variance Account Description	Amount (\$)	Principal (\$)	Interest (\$)
1508	Pension & Other Post-Employment Benefits ("OPEB")	\$(272,000)	\$(272,000)	\$0
1508	Energy East Cost Defer Cost	\$54,373	\$50,731	\$3,642
1508	Y-Factor Variance Account	\$335,267	\$335,267	\$0
1508	Gains/Losses from Sale of Existing Facilities Deferral	\$(2,025,711)	\$(2,025,711)	\$0
1508	New Facilities Deferral Account	\$4,634,058	\$4,634,058	0
1508	Gains and Loss on Disposal of Fixed Assets Variance Account	\$1,413,707	\$1,360,861	\$52,846
1508	Earnings Sharing Mechanism ("ESM") Variance Account	\$(3,463,136)	\$(3,361,195)	\$(101,941)
1508	Connection Cost Recovery Agreement ("CCRA") Payment	\$169,599	\$165,621	\$3,978
1508	Efficiency Adjustment Mechanism Deferral Account	\$(576,766)	\$(558,996)	\$(17,770)
1508	OEB Cost Assessment Variance	\$1,461,471	\$1,396,210	\$65,261
1508	OPEB Differential	\$5,848	\$0	\$5,848
1508	Total of 1508 Sub-Accounts	\$1,736,710	\$1,724,845	\$11,865
1518	Retail Cost Variance - Retail	\$(42,240)	\$(39,488)	\$(2,752)
1548	Retail Cost Variance - Service Transaction Requests ("STRs")	\$336,350	\$314,009	\$22,341
1592	PILs and Tax Variances - Sub-Account: Capital Cost Allowance ("CCA") Changes	\$(8,274,555)	\$(8,092,672)	\$(181,883)
	Sub-Total Prior to Lost Revenue Adjustment Mechanism ("LRAM")	\$(6,243,735)	\$(6,093,306)	\$(150,431)
1568	LRAM Variance Account ("LRAMVA")	\$491,812	\$444,449	\$47,363
TOTAL D	VA BALANCE TO BE MOVED TO 1595 (2021) ⁵	\$(5,751,923)	\$(5,648,857)	\$(103,068)

2

 $^{^{3}\,\,}$ Totals may not sum due to rounding.



1

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Table 1 - UPDATED FOR 2019 ACTUALS - Proposed DVA Dispositions

Group	USofA Number	Group 1 and 2 Deferral/Variance Account Description	Amount (\$)	Principal (\$)	Interest (\$)
1	1550	LV Variance Account	\$(313,465)	\$(304,865)	\$(8,600)
1	1551	Smart Metering Entity Charge Variance Account	\$(77,882)	\$(75,564)	\$(2,317)
1	1580	RSVA - Wholesale Market Service Charge	\$(2,060,384)	\$(2,022,576)	\$(37,808)
1	1580	Variance WMS – Sub-account CBR Class A	\$0	\$0	\$0
1	1580	Variance WMS – Sub-account CBR Class B	\$(492,601)	\$(477,649)	\$(14,952)
1	1584	RSVA - Retail Transmission Network Charge	\$(742,184)	\$(714,195)	\$(27,988)
1	1586	RSVA - Retail Transmission Connection Charge	\$(4,728,044)	\$(4,577,938)	\$(150,106)
1	1588	RSVA - Power (excluding Global Adjustment)	\$757,478	\$743,192	\$14,286
1	1589	RSVA - Global Adjustment	\$6,051,424	\$5,762,960	\$288,464
1	1595	Disposition and Recovery/Refund of Regulatory Balances (2016)	\$66,600	\$91,297	\$(24,697)
1	1595	Disposition and Recovery/Refund of Regulatory Balances (2017)	\$(505,116)	\$(188,154)	\$(316,962)
		Group 1 Subtotal (Excluding Global Adjustment)	\$(8,095,597)	\$(7,526,452)	\$(569,145)
		Global Adjustment	\$6,051,424	\$5,762,960	\$288,464
		Group 1 TOTAL	\$(2,044,173)	\$(1,763,493)	\$(280,681)
		1508 Other Regulatory Assets - Sub-Account			
2	1508	Pension & Other Post-Employment Benefits ("OPEB")	\$(4,431,595)	\$(4,431,595)	\$0
2	1508	Energy East Cost Defer Cost	\$55,424	\$50,731	\$4,693
2	1508	Y-Factor Variance Account	\$320,332	\$320,332	\$0
2	1508	Gains/Losses from Sale of Existing Facilities Deferral	\$(2,151,861)	\$(2,151,861)	\$0
2	1508	New Facilities Deferral Account	\$4,627,793	\$4,627,793	0
2	1508	Gains and Loss on Disposal of Fixed Assets Variance Account	\$3,677,609	\$3,543,600	\$134,009
2	1508	Earnings Sharing Mechanism ("ESM") Variance Account	\$(3,854,079)	\$(3,672,684)	\$(181,395)
2	1508	Connection Cost Recovery Agreement ("CCRA") Payment	\$836,084	\$814,360	\$21,724
2	1508	Efficiency Adjustment Mechanism Deferral Account	\$(892,062)	\$(854,169)	\$(37,893)
2	1508	OEB Cost Assessment Variance	\$1,989,596	\$1,879,684	\$109,912



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2	1508	OPEB Differential	\$0	\$0	\$0
2	1508	RCVA Retail Incremental Revenue	\$(36,725)	\$(35,714)	\$(1,011)
2	1508	STR Incremental Revenue	\$(1,005)	\$(977)	\$(28)
	1508	Sub-Total of 1508 Sub-Accounts	\$139,511	\$89,499	\$50,012
2	1518	Retail Cost Variance - Retail	\$(43,058)	\$(39,487)	\$(3,572)
2	1522	Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges	\$(6,403)	\$0	\$(6,403)
2	1548	Retail Cost Variance - Service Transaction Requests ("STRs")	\$342,868	\$314,008	\$28,860
2	1592	PILs and Tax Variances - Sub-Account: Capital Cost Allowance ("CCA") Changes	\$(7,872,290)	\$(7,677,876)	\$(194,414)
		Group 2 Sub-Total Prior to Lost Revenue Adjustment Mechanism ("LRAM")	\$(7,439,372)	\$(7,313,855)	\$(125,517)
2	1568	LRAM Variance Account ("LRAMVA")	\$2,788,000	\$2,506,838	\$281,162
		Group 2 Sub-Total	\$(4,651,372)	\$(4,807,017)	\$155,645
		DVA BALANCE (Group 1 & Group 2) TO BE TO 1595 (2021) ⁶	\$(6,695,545)	\$(6,570,509)	\$(125,036)

2 3. ALLOCATION OF DVAs AND LENGTH OF DISPOSITION PERIOD

- 3 Hydro Ottawa is requesting a two-year rate rider for the refund of balances proposed for the
- 4 Group 2 disposition (without LRAM). In addition, Hydro Ottawa is requesting disposition of the
- 5 Group 1 Rate Rider for Deferral/Variance Accounts over two years. This helps facilitate a more
- 6 levelized rate impact between the 2021-2023 rate years.

7

1

- 8 As originally submitted, Hydro Ottawa is proposing to dispose of the LRAM rate rider over a
- 9 one-year period. This adheres to the default disposition period. After accounting for 2019
- actuals, Hydro Ottawa is proposing to dispose of the LRAM rate rider over a two-year period.

11

- 12 All Group 2 rate riders were allocated by 2021 distribution revenue, which is in line with how the
- 13 original revenue requirement was collected.

^{15 6} Totals may not sum due to rounding.



Hydro Ottawa Limited EB-2019-0261 Exhibit 9 Tab 3 Schedule 1 UPDATED May 5, 2020 Page 9 of 17

- 1 As part of the updates to this Application accounting for 2019 actuals, the Facilities rate riders
- 2 were allocated by 2021 distribution revenue as per the Approved Settlement Agreement.

3

4 4. BILLING DETERMINANTS

Hydro Ottawa has used the 2021 and 2022⁷ Load Forecast billing determinants, as presented in UPDATED Exhibit 3-1-1: Load Forecast, for the calculation on the rate riders. Hydro Ottawa has utilized UPDATED Appendix 2-Z to allocate percentages for Non-Regulated Price Plan ("RPP") customers based on 2019 actuals, which can be found in UPDATED Attachments 2-3-1(A) through (E) for the 2021-2025 period, respectively. The Non-RPP percentage was then applied to the 2021 Load Forecast billing determinants. Wholesale Market Participants' consumption was determined by using final 2019 numbers and allocating the percentage of total consumption against the 2021 Load Forecast. Hydro Ottawa has allocated the 1595 Recovery Share Proportion for 2015 and 2016 by dividing the rate classes Load Forecast kWh by the total Load

15

14 Forecast kWh.

16 5. PROPOSED RATE RIDERS

As originally submitted, Hydro Ottawa provided Tables 2 through 4 below to outline proposed rate riders to clear the DVA balances in the Group 2 Accounts for which Hydro Ottawa is seeking disposition. As part of the updates for 2019 actuals, Hydro Ottawa has provided updated versions of Tables 2 through 4 below (along with newly-created Tables 5 through Table 8 below) to outline the proposed rate riders to clear the DVA balances in Group 1 and 2 Accounts for which Hydro Ottawa is seeking disposition.

- -

²³ This is with respect to the second year of the Group 2 rate rider.



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Table 2 – AS ORIGINALLY SUBMITTED – Rate Riders for Group 2 Accounts (2021)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	316,346	\$(1,753,695)	-0.46	\$/kWh
General Service < 50 kW	kWh	700,163,000	\$(377,290)	-0.0005	\$/kWh
General Service 50 to 1,499 kW	kW	6,816,104	\$(680,145)	-0.0998	\$/kW
General Service 1,500 to 4,999 kW	kW	1,518,349	\$(169,695)	-0.1118	\$/kW
Large Use	kW	1,052,899	\$(115,150)	-0.1094	\$/kW
Unmetered Scattered Load	kWh	13,602,000	\$(8,844)	-0.0007	\$/kWh
Sentinel Lighting	kW	132	\$(75)	-0.5718	\$/kW
Street Lighting	kW	61,588	\$(16,973)	-0.2756	\$/kW
TOTAL			\$(3,121,867)		

2

1

3 Table 2 – AS REVISED – Rate Riders for Group 2 Accounts (2021)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	316,346	\$(1,753,695)	-0.46	\$
General Service < 50 kW	kWh	700,163,000	\$(377,290)	-0.0005	\$/kWh
General Service 50 to 1,499 kW	kW	6,816,104	\$(680,145)	-0.0998	\$/kW
General Service 1,500 to 4,999 kW	kW	1,518,349	\$(169,695)	-0.1118	\$/kW
Large Use	kW	1,052,899	\$(115,150)	-0.1094	\$/kW
Unmetered Scattered Load	kWh	13,602,000	\$(8,844)	-0.0007	\$/kWh
Sentinel Lighting	kW	132	\$(75)	-0.5718	\$/kW
Street Lighting	kW	61,588	\$(16,973)	-0.2756	\$/kW
TOTAL			\$(3,121,867)		

4

5



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Table 2 – UPDATED FOR 2019 ACTUALS – Rate Riders for Group 2 Accounts (2021)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	316,346	\$(846,856)	-0.22	\$
General Service < 50 kW	kWh	699,871,000	\$(338,087)	-0.0005	\$/kWh
General Service 50 to 1,499 kW	kW	6,815,129	\$(1,736,952)	-0.2549	\$/kW
General Service 1,500 to 4,999 kW	kW	1,517,165	\$(418,856)	-0.2761	\$/kW
Large Use	kW	1,052,091	\$(364,649)	-0.3463	\$/kW
Unmetered Scattered Load	kWh	13,602,000	\$(5,894)	-0.0004	\$/kWh
Sentinel Lighting	kW	132	\$(0)	-0.0016	\$/kW
Street Lighting	kW	61,590	\$(8,391)	-0.1362	\$/kW
TOTAL			\$(3,719,686)		

2

1

Table 3 – AS ORIGINALLY SUBMITTED – Rate Riders for Group 2 Accounts (2022)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	319,386	\$(1,753,695)	-0.46	\$/kWh
General Service < 50 kW	kWh	699,456,000	\$(377,290)	-0.0005	\$/kWh
General Service 50 to 1,499 kW	kW	6,618,165	\$(680,145)	-0.0998	\$/kW
General Service 1,500 to 4,999 kW	kW	1,517,223	\$(169,695)	-0.1118	\$/kW
Large Use	kW	1,050,767	\$(115,150)	-0.1096	\$/kW
Unmetered Scattered Load	kWh	13,130,000	\$(8,844)	-0.0007	\$/kWh
Sentinel Lighting	kW	132	\$(75)	-0.5718	\$/kW
Street Lighting	kW	58,863	\$(16,973)	-0.2883	\$/kW
TOTAL			\$(3,121,867)		

4



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Table 3 – AS REVISED – Rate Riders for Group 2 Accounts (2022)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	319,386	\$(1,753,695)	-0.46	\$
General Service < 50 kW	kWh	699,456,000	\$(377,290)	-0.0005	\$/kWh
General Service 50 to 1,499 kW	kW	6,618,165	\$(680,145)	-0.0998	\$/kW
General Service 1,500 to 4,999 kW	kW	1,517,223	\$(169,695)	-0.1118	\$/kW
Large Use	kW	1,050,767	\$(115,150)	-0.1096	\$/kW
Unmetered Scattered Load	kWh	13,130,000	\$(8,844)	-0.0007	\$/kWh
Sentinel Lighting	kW	132	\$(75)	-0.5718	\$/kW
Street Lighting	kW	58,863	\$(16,973)	-0.2883	\$/kW
TOTAL			\$(3,121,867)		

2

1

3 Table 3 – UPDATED FOR 2019 ACTUALS – Rate Riders for Group 2 Accounts (2022)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	319,386	\$(846,856)	-0.22	\$
General Service < 50 kW	kWh	699,134,000	\$(338,087)	-0.0005	\$/kWh
General Service 50 to 1,499 kW	kW	6,817,445	\$(1,736,952)	-0.2548	\$/kW
General Service 1,500 to 4,999 kW	kW	1,516,028	\$(418,856)	-0.2763	\$/kW
Large Use	kW	1,050,767	\$(364,649)	-0.3470	\$/kW
Unmetered Scattered Load	kWh	13,130,000	\$(5,894)	-0.0004	\$/kWh
Sentinel Lighting	kW	132	\$(0)	-0.0016	\$/kW
Street Lighting	kW	58,864	\$(8,391)	-0.1426	\$/kW
TOTAL			\$(3,719,686)		



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Table 4 – AS ORIGINALLY SUBMITTED – Rate Riders for Accounts 1568

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	316,346	\$312,463	0.08	\$
General Service < 50 kW	kWh	700,163,000	\$248,850	0.0004	\$/kWh
General Service 50 to 1,499 kW	kW	6,816,104	\$(33,797)	-0.0050	\$/kW
General Service 1,500 to 4,999 kW	kW	1,518,349	\$(9,089)	-0.0060	\$/kW
Large Use	kW	1,052,899	\$(6,174)	-0.0059	\$/kW
Unmetered Scattered Load	kWh	13,602,000	\$(4,051)	-0.0003	\$/kWh
Sentinel Lighting	kW	132	0	0	\$/kW
Street Lighting	kW	61,588	\$(16,390)	-0.2661	\$/kW
TOTAL			\$491,812		

2

1

Table 4 - UPDATED FOR 2019 ACTUALS - Rate Riders for Accounts 1568 (2021)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	316,346	\$945,152	0.25	\$
General Service < 50 kW	kWh	699,871,000	\$419,244	0.0006	\$/kWh
General Service 50 to 1,499 kW	kW	6,815,129	\$(120,033)	-0.0176	\$/kW
General Service 1,500 to 4,999 kW	kW	1,517,165	\$73,265	0.0483	\$/kW
Large Use	kW	1,052,901	\$80,018	0.0760	\$/kW
Unmetered Scattered Load	kWh	13,602,000	\$(2,066)	-0.0002	\$/kWh
Sentinel Lighting	kW	132	0	0	\$/kW
Street Lighting	kW	61,590	\$(1,580)	-0.257	\$/kW
TOTAL			\$1,394,000		



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Table 4 – UPDATED FOR 2019 ACTUALS – Rate Riders for Accounts 1568 (2022)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	319,386	\$945,152	0.25	\$
General Service < 50 kW	kWh	699,134,000	\$419,244	0.0006	\$/kWh
General Service 50 to 1,499 kW	kW	6,817,445	\$(120,033)	-0.0176	\$/kW
General Service 1,500 to 4,999 kW	kW	1,516,028	\$73,265	0.0483	\$/kW
Large Use	kW	1,050,767	\$80,018	0.0762	\$/kW
Unmetered Scattered Load	kWh	13,130,000	\$(2,066)	-0.0002	\$/kWh
Sentinel Lighting	kW	132	0	0	\$/kW
Street Lighting	kW	58,864	\$(1,580)	-0.0268	\$/kW
TOTAL			\$1,394,000		

2

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Table 5 – Rate Riders for Group 1 Accounts (2021)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	kWh	2,252,937,000	\$(1,316,083)	-0.0006	\$/kWh
General Service < 50 kW	kWh	699,871,000	\$(400,534)	-0.0006	\$/kWh
General Service 50 to 1,499 kW	kW	6,815,129	\$(1,241,057)	-0.1821	\$/kW
General Service 1,500 to 4,999 kW	kW	1,517,165	\$(300,791)	-0.1983	\$/kW
Large Use	kW	1,052,901	\$(326,291)	-0.3099	\$/kW
Unmetered Scattered Load	kWh	13,602,000	\$(7,728)	-0.0006	\$/kWh
Sentinel Lighting	kW	132	\$(27)	-0.2023	\$/kW
Street Lighting	kW	61,590	\$(12,560)	-0.2039	\$/kW
TOTAL			\$(3,605,071)		

4



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Table 6 - Rate Riders for Group 1 Accounts (2022)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	kWh	2,273,821,000	\$(1,316,083)	-0.0006	\$/kWh
General Service < 50 kW	kWh	699,134,000	\$(400,534)	-0.0006	\$/kWh
General Service 50 to 1,499 kW	kW	6,817,445	\$(1,241,057)	-0.1820	\$/kW
General Service 1,500 to 4,999 kW	kW	1,516,028	\$(300,791)	-0.1984	\$/kW
Large Use	kW	1,050,767	\$(326,291)	-0.3105	\$/kW
Unmetered Scattered Load	kWh	13,130,000	\$(7,728)	-0.0006	\$/kWh
Sentinel Lighting	kW	132	\$(27)	-0.2023	\$/kW
Street Lighting	kW	58,864	\$(12,560)	-0.2134	\$/kW
TOTAL			\$(3,605,071)		

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Table 7 – Rate Riders for Group 1 Accounts 1580 & 1588 (2021)

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	kWh	2,252,937,000	\$0	0	\$/kWh
General Service < 50 kW	kWh	699,871,000	\$0	0	\$/kWh
General Service 50 to 1,499 kW	kW	6,753,222	\$(711,159)	-0.1053	\$/kW
General Service 1,500 to 4,999 kW	kW	1,481.663	\$(174,297)	-0.1176	\$/kW
Large Use	kW	1,052,901	\$0	0	\$/kW
Unmetered Scattered Load	kWh	13,602,000	\$0	0	\$/kWh
Sentinel Lighting	kW	132	\$0	0	\$/kW
Street Lighting	kW	61,590	\$0	0	\$/kW
TOTAL			\$(885,456)		

4



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Table 8 - Rate Riders for RSVA Power - Global Adjustment

Rate Class Units		kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	kWh	42,569,870	\$112,149	0.0026	\$/kWh
General Service < 50 kW	kWh	107,880,926	\$284,209	0.0026	\$/kWh
General Service 50 to 1,499 kW	kWh	1,910,558,727	\$5,033,317	0.0026	\$/kWh
General Service 1,500 to 4,999 kW	kWh	137,142,627	\$361,299	0.0026	\$/kWh
Large Use	kWh	0	\$0	0.0026	\$/kWh
Unmetered Scattered Load	kWh	0	\$0	0	\$/kWh
Sentinel Lighting	kWh	0	\$0	0	\$/kWh
Street Lighting	kWh	22,107,000	\$58,240	0.0026	\$/kWh
TOTAL			\$5,849,215		

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3 6. GA AND WHOLESALE MARKET SERVICE CAPACITY BASED RECOVERY CLASS A

4 ADJUSTMENTS

5 As per the utility's original Application, Hydro Ottawa is not proposing GA and Wholesale Market

6 Service Capacity Based Recovery Class A adjustments at this time, as the 2018 balances were

7 addressed in Hydro Ottawa's 2020 rate application. Any required adjustments will be proposed

8 when the Application is updated for 2019 year-end balances.

9

As part of the updates to this Application to account for 2019 actuals, Hydro Ottawa has provided customer level consumption in UPDATED Attachment 9-1-1(A) in order to capture customer-specific impacts of transitioning Class A customers. The total amount allocated to Class A transitioning customers for GA is a charge of \$202,209. The total amount to be allocated to Class A transitioning customers for WMS CBR is being cleared through the general purpose Group 1 DVA rate rider. Hydro Ottawa proposes to apply the customer-specific Class A GA adjustments as a one-time adjustment rather than monthly adjustments. Unlike the use of rate riders, these adjustments are a manual process for Hydro Ottawa.



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1 7. PROPOSED ESTABLISHMENT OF NEW DVAs

- 2 Please see Exhibit 9-2-1: New Deferral and Variance Accounts for new accounts for which
- 3 approval is being sought as part of this Application.

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Account 1589 Global Adjustment (GA) Analysis Workform

	Input cells Drop down cells	
Note 1	Years Requested for Disposition	2019
NOTE	rears requested for Disposition	2010

Note 2 Consumption Data Excluding for Loss Factor (Data to agree with RRR as applicable)

Year		2019				
Total Metered excluding WMP	C = A+B	7,235,638,924	0	0	kWh	100%
RPP	A	3,195,543,964			kWh	44.2%
Non RPP	B = D+E	4,040,094,959	0	0	kWh	55.8%
Non-RPP Class A	D	1,324,024,674			kWh	18.3%
Non-RPP Class B*	E	2,716,070,285			kWh	37.5%

*Non-RPP Class B consumption reported in this table is not expected to directly agree with the Non-RPP Class B Including Loss Adjusted Billed Consumption in the GA Analysis of Expected Balance table below. The difference should be equal to the loss factor.

Note 3 GA Billing Rate

GA is billed on the	1st Estimate

GA Billing Rate Description

Note 4 GA Analysis of Expected Balance

2019								
Non-RPP Class B Including Loss Adjusted Billed Consumption (kWh)	Deduct Previous Month Unbilled Loss Adjusted Consumption (kWh)	Add Current Month Unbilled Loss Adjusted Consumption (kWh)	Non-RPP Class B Including Loss Adjusted Consumption, Adjusted for Unbilled (kWh)	GA Rate Billed (\$/kWh)	\$ Consumption at GA Rate Billed	GA Actual Rate Paid (\$/kWh)	\$ Consumption at Actual Rate Paid	Expected GA Variance (\$)
F	G	Н	I = F-G+H	J	K = I*J	L	M = I*L	=M-K
258,784,954	250,848,686	262,934,618	270,870,886	0.06741	\$ 18,259,406	0.08093	\$ 21,922,393	\$ 3,662,987
262,409,280	262,934,618	238,891,356	238,366,018	0.09657	\$ 23,019,006	0.08812	\$ 21,004,337 -	\$ 2,014,670
250,376,717	238,891,356	234,270,557	245,755,917	0.08105	\$ 19,918,517	0.08041	\$ 19,760,226 -	\$ 158,291
231,817,568	234,270,557	219,407,339	216,954,350	0.08129	\$ 17,636,219	0.12331	\$ 26,753,075	\$ 9,116,856
229,723,264	219,407,339	198,964,959	209,280,884	0.1286	\$ 26,913,522	0.12604	\$ 26,376,758 -	\$ 536,764
209,837,666	198,964,959	204,022,111	214,894,818	0.12444	\$ 26,741,511	0.13727	\$ 29,498,891	\$ 2,757,380
219,877,801	204,022,111	239,287,797	255,143,488	0.13527	\$ 34,513,260	0.09645	\$ 24,608,717 -	\$ 9,904,543
251,353,576	239,287,797	228,249,041	240,314,820	0.07211	\$ 17,329,102	0.12607	\$ 30,295,451	\$ 12,966,350
234,090,874	228,249,041	204,424,566	210,266,398	0.12934	\$ 27,195,856	0.12261	\$ 25,780,847 -	\$ 1,415,009
178,883,943	204,424,566	232,175,045	206,634,422	0.17878	\$ 36,942,102	0.13678	\$ 28,263,849 -	\$ 8,678,253
233,140,244	232,175,045	228,087,942	229,053,141	0.10727	\$ 24,570,530	0.09954	\$ 22,799,120 -	\$ 1,771,410
224,209,707	228,087,942	245,043,448	241,165,213	0.08569	\$ 20,665,447	0.09321	\$ 22,479,506	\$ 1,814,059
2,784,505,593	2,741,564,017	2,735,758,779	2,778,700,355		293,704,479		299,543,171	5,838,692
	ncluding Loss Adjusted Billed Consumption (kWh) F 258,784,954 262,409,280 250,376,717 231,817,568 229,723,264 209,837,666 219,877,801 251,353,576 234,090,874 178,883,943 233,140,244 224,209,707	Non-RPP Class B micluding Loss Adjusted Consumption (kWh) F F G 258,784,954 250,376,717 238,951,356 231,817,568 231,817,568 239,273,264 219,407,339 209,837,666 198,964,959 219,877,801 221,353,576 239,287,797 234,090,874 228,249,041 178,883,943 204,424,566 233,140,244 232,175,045 224,209,707 228,087,942	Non-RPP Class B Consumption (kWh)	Deduct Previous Month Unbilled Loss Adjusted Consumption (kWh) CS Adjusted Consumption (kWh) F G H I = F-G+H 256,376,177 238,891,356 234,270,557 249,470,557 245,755,917 231,817,568 234,270,557 249,470,339 229,272,264 219,407,339 198,964,959 209,280,884 209,837,666 198,964,959 204,022,111 214,984,818 219,977,801 229,376,376 239,287,797 228,249,041 224,031,482 234,270,557 239,477,939 230,477,939	Non-RPP Class B Clouding Loss Adjusted Consumption (kWh)	Non-RPP Class B ncluding Loss Adjusted Billed Consumption (kWh)	Non-RPP Class B ncluding Loss Adjusted Consumption (kWh) C	Deduct Previous Month Unbilled Loss Adjusted Consumption (kWh) Consumption (kWh) Consumption (kWh) Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J K= I*J L M= I*L Loss Adjusted Consumption (kWh) EF-G+H J Loss Adjusted Consumption (kWh) EF-G+H J Loss Adjusted Consumption (kWh) EF-G+H J Loss Adjusted Consumption (kWh) EF-G+H J Loss Adjusted Consumption (kWh) EF-G+H J Loss Adjusted Consumption (kWh) EF-G+H J Loss Adjusted Consumption (kWh) EF-G+H Loss Adjuste

Net Change in Account 1589 Principal Balance in the Year Requested for Disposition\$ 5,277,70

1.0231 line loss Preliminary Difference \$ 560,98

Note 5 Reconciling Items between Expected GA Balance and Amount Requested for Disposition

Net Cha	ltem nge in Principal Balance in the GL (i.e. Transactions in th	Applicability of Reconciling Item (Y/N) te Year)	Amount (Quantify if it is a significant reconciling item) 5,277,704.87	Explanation	Principal Adjustment on DVA Continuity	explanation	\$ Principal Adjustment on DVA Continuity Schedule
	True-up of GA Charges based on Actual Non-RPP Volumes prior year	Y	- 29,198.16	Remove impacts to GA from prior year RPP Settlement true up process that are booked in current year (2018 Booked in 2019)		(869) difference is caused by billing in the remaining months of 2019.	- 28,329.54
	True-up of GA Charges based on Actual Non-RPP Volumes current year	Y	87,644.01	2019 RPP vs Non-RPP Allocation done in 2020	yes, cell BF32 DVA Continuity Schedule	17.91 difference is	
2a	Remove prior year end unbilled to actual revenue difference	Υ	685,315.23	2018 (Dec 2019 Actual kWh)		caused by billing in the remaining months of 2019.	683,523.95
	Add current year end unbilled to actual revenue difference Remove difference between prior year accrual/forecast to	Υ	- 257,583.69	Unbilled vs Actual Difference (November & December 2019 TU2) done in 2020	yes, cell BF32 DVA Continuity Schedule		
3a	Add difference between pilot year accrual/forecast to actual from long term load transfers Add difference between current year accrual/forecast to actual from long term load transfers	N N					
5	Remove GA balances pertaining to Class A customer: Significant prior period billing adjustments recorded in curren year	N N					
7	Differences in GA IESO posted rate and rate charged on IESO invoice Differences in actual system losses and billed TLF Others as justified by distributo	N					
9			£ 762 992 26				

0.00%

Note 7 <u>Cumulative Expected GA Balance (if multiple years requested for disposition)</u>

Year	Annual Net Change in Expected GA Balance from GA Analysis (cell K47)	Annual Net Change in Principal GA Requesed for Disposition (cell K48)	Preliminary Difference (cell K49)	Total Reconciling Items (cell D70)	Unresolved Difference	Payments to IESO (cell J47)	Unresolved Difference as % of Expected GA Payments to IESO
2019	5,838,692.27	5,277,704.87	486,177.39	5,763,882	- 74,810	299,543,171	0.0%
					-		0.0%
					-		0.0%
					-		0.0%
Cumulative Balance	\$ 5,838,692.27	\$ 5,277,704.87	\$ 486,177.39	\$ 5,763,882.26	-\$ 74,810.01	\$ 299,543,170.82	0.0%

Additional Notes and Comments		



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Appendix A UPDATED GA Methodology Description Questions on Accounts 1588 & 1589¹

1. Please complete the Table below for principal adjustments on the DVA Continuity Schedule for Account 1588:

Reconciliation of Account 1588 - 2019

		Principal Adjustments	Was the amount a "Principal Adjustment" in the previous year? (Y/N)
	Balance December 31, 2019	\$1,227,760	
Rev	ersals of Principal Adjustments - previous year		
1.	Reversal of Cost of Power accrual from previous year	0	N
2.	Reversal of CT 1142 true-up from the previous year	\$10,635	Y
3.	Unbilled to billed adjustment for previous year	\$(182,878)	Y
4.	Reversal of RPP vs. Non-RPP allocation	\$829,307	Y
	Sub-Total Reversals from previous year (A):	\$657,064	
Prin	cipal Adjustments - current year		
5.	Cost of power accrual for <mark>2019</mark> vs Actual per IESO bill	\$169	N
6.	True-up of CT 1142 for 2019 consumption recorded in 2020		
	GL	\$(1,029,323)	N
7.	Unbilled accrued vs. billed for 2019 consumption	\$(24,835)	N
8.	True-up of RPP vs. Non-RPP allocation of CT 148 based on actual 2019 consumption	\$(87,644)	N
9.	Other		
	Sub-Total Principal Adjustments for 2019 consumption (B)	\$(1,141,632)	

¹In all references in the questions relating to amounts booked to accounts 1588 and 1589, amounts are not booked directly to accounts USoA 1588 and 1589 relating to power purchase transactions, but are rather booked to the cost of power USoA 4705 Power Purchased, and 4707, Charges – Global Adjustment, respectively. However, accounts 1588 and 1589 are impacted the same way as account 4705 and 4707 are for cost of power transactions.



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Total Principal Adjustments shown for 2019 (A + B)	\$(484,568)	
Bal. For Disposition - 1588 (should match Total Claim column on	\$743,192	
DVA Continuity Schedule	ψ1.13/232	

- 10. In booking expense journal entries for Charge Type (CT) 1142 and CT 148 from the IESO invoice, please confirm which of the following approaches is used:
 - a. CT 1142 is booked into Account 1588. CT 148 is prorated based on RPP/non-RPP consumption and then booked into Account 1588 and 1589 respectively.
 - b. CT 148 is booked into Account 1589. The portion of CT 1142 equaling RPP minus HOEP for RPP consumption is booked into Account 1588. The portion of CT 1142 equaling GA RPP is credited into Account 1589.
 - c. If another approach is used, please explain in detail.
 - d. Was the approach described in response to the above questions used consistently for all years for which variances are proposed for disposition? If not, please discuss.

Reponse:

Hydro Ottawa follows approach a) in accordance with OEB's accounting guidance issued on February 21, 2019 to standardize the accounting processes for commodity accounts.

11. Questions on CT 1142

- a. Please describe how the initial RPP related GA is determined for settlement forms submitted by day 4 after the month-end (resulting in CT 1142 on the IESO invoice).
- b. Please describe the process for truing up CT 1142 to actual RPP kWh, including which data is used for each TOU/Tier 1&2 prices, as well as the timing of the true up.
- c. Has CT 1142 been trued up for with the IESO for all of 2019?
- d. Which months from 2019 were trued up in 2020?



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- i. Were these true ups recorded in 2019 or 2020 balance in the General Ledger?
- e. Have all of the 2019 related true-up been reflected in the applicant's DVA Continuity Schedule in this proceeding?

Response:

- a. For the initial settlement, a number of reports are run for all customer groups and provide the estimated kWh sales, at each RPP rate point, and Non-RPP kWh sales, based on preliminary meter data. The day 4 estimated RPP GA cost is calculated based on estimated RPP kWh sales multiplied by the GA 2nd estimate rate and is included in CT 1142 submission. This estimated RPP GA cost is recorded to Account 1588.
- b. The first true-up RPP settlement amount is done the following month which consists of updates to actual for the GA rate and energy price with no change to RPP and Non-RPP sales. The first true-up RPP settlement amount includes an updated RPP GA cost (estimated RPP kWh in the initial RPP settlement multiplied by the actual GA rate paid). Actual GA rate paid is the total GA amount paid (per CT148 on the IESO and Hydro One invoices) divided by updated wholesale GA B kWh volumes. The total wholesale volume is updated to actual based on IESO invoice, Hydro One invoice and final embedded generation payments. We verify that the GA paid rate approximates the final GA posted rate prior to using it for CT 1142 settlement. In addition, the difference between TOU/Tier 1&2 prices and the updated energy price multiplied by estimated RPP quantities is included in the first true-up RPP settlement amount. The difference between the initial RPP settlement amount and the first true-up RPP settlement amount is included in the CT 1142 submission and is booked to 1588.

RPP settlement amount is again updated with a 2nd true-up, normally two months after the initial submission, based on actual kWh sales with no change to



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GA rate or energy prices. The RPP kWh sales, at each RPP rate point, and Non-RPP kWh sales are updated with actual kWh sales, based on final metered data. The difference between the 2nd true-up RPP settlement amount and the first true-up RPP settlement amount is included in the CT 1142 submission and is booked to 1588; at this stage, account 1588 includes final RPP GA cost.

- c. Yes, the final true-up for 2019 was included in CT 1142 as part of the April 2020 month end submission.
- d. November 2019 (2nd true-up) and December 2019 (1st and 2nd true-up) and final true-up for 2019 were trued-up in 2020 and recorded in the 2020 general ledger. Otherwise true-ups (other than final) for January to October 2019 were recorded in the 2019 general ledger.
- e. Yes, the 2019 true-ups, recorded in 2020, and reversals of the 2018 true-ups recorded in 2019, are reflected in the DVA Continuity Schedule in cell BF31, \$(484,568). The total closing principle balance as at December 31, 2019 for 1588 is \$743,192, please refer to cell BO31.

12. Questions on CT 148

- a. Please describe the process for the initial recording of CT 148 in the accounts (i.e. 1588 and 1589).
- b. Please describe the process for true up of the GA related cost to ensure that the amounts reflected in Account 1588 are related to RPP GA costs and amounts in 1589 are related to only non-RPP GA costs.
- c. What data is used to determine the non-RPP kWh volume that is multiplied with the actual GA per kWh rate (based on CT 148) for recording as the initial GA expense in Account 1589?
- d. Does the utility true up the initial recording of CT 148 in Accounts 1588 and 1589 based on estimated RPP/non-RPP consumption proportions to actuals based on actual RPP-non-RPP consumption proportions?



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- e. Please indicate which months from 2019 were trued up in 2020 for CT 148 proportions between RPP and non-RPP
 - i. Were these true ups recorded in 2019 or 2020 balance in the General Ledger?
- f. Are all true-ups for 2019 consumption reflected in the DVA Continuity Schedule?

Response:

- A. The initial accrual for CT 148 is based on (Total estimated wholesale volume minus estimated Class A kWh and RPP kWh) * 2nd GA B rate and this is booked to 1589. The initial estimated RPP related GA amount is booked to 1588. Total estimated wholesale volume is based on preliminary meter data.
- B. The RPP GA cost and non-RPP GA costs recorded in Account 1588 and 1589 respectively are updated over several months; updates are due to changes from estimates to final for both GA rate and RPP and non-RPP sales volume. Final Commodity expense in Account 1588 includes actual RPP GA cost (actual RPP kWh * GA paid rate) while GA expense in Account 1589 cost is actual non-RPP sales * actual GA rate paid. Journal entries based on these updates are made to adjust 1588 and 1589 balances in order to ensure the amounts reflected in 1588 and 1589 are correct.
- C. In December of each year end, the GA expense in Account 1589 is recorded using the paid GA rate (based on CT 148) * estimated non-RPP kWh. GA expenses for 2019 have been finalized in subsequent months up to and including April 2020. Journal entries have been made in 2020 to Account 1588 and 1589 respectively to record the true-up of RPP GA cost of \$(169,940) in the general ledger. This 2019 true-up amount of \$(169,940) has been included in the DVA Continuity Schedule.



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- D. Yes, there is a true up of the initial recording of CT 148 in Accounts 1588 and 1589 based on estimated RPP/non-RPP consumption proportions to actuals based on actual RPP-non-RPP consumption proportions
- E. November 2019 (2nd true-up) and December 2019 (2nd true-up) were trued-up in 2020. The true-ups were recorded in the General Ledger balances of 2020.
- F. Yes, the 2019 true-ups, recorded in 2020, and reversals of the 2018 true-ups, recorded in 2019, are reflected in the DVA Continuity Schedule in cell BF32, \$485,255. The total closing principle balance as at December 31, 2019 for 1589 is \$5,762,960 please refer to cell BO32.
- 13. Questions regarding principal adjustments and reversals on the DVA Continuity Schedule:

Questions on Principal Adjustments - Accounts 1588 and 1589

- a. Did the applicant have principal adjustments in its 2020 rate proceeding which were approved for disposition?
- b. If yes, please provide a break-down of the total amount of principal adjustments that were approved (e.g. true-up of unbilled, true up of CT 1142, true up of CT 148 etc.) for each of Accounts 1588 and 1589.
- c. Has the applicant reversed the adjustment approved in 2020 rates in its current proposed amount for disposition?
- NB: only the principal adjustments amounts that were disposed in the previous proceeding should be reversed in this proceeding. For example, if no amount related to unbilled to billed adjustment for 2019 consumption was included in 2020 proceeding, this amount should not be included as a "reversal" from the previous year.
 - d. Please confirm that the allocation of charge type 148 has been trued up to actual proportion of RPP/non-RPP consumption in the GL.



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Response:

- A. Yes, in the 2020 rate proceedings there was (\$657,064) for 1588 and (\$655,194) for 1589.
- B. 1588: CT 1142 true-up from the previous year \$(10,635), unbilled to billed adjustment for previous year \$182,878, RPP vs. Non-RPP allocation \$(829,307)
 1589: true-up of GA charges based on actual non-RPP volumes from the previous year \$28,330, current year end unbilled to actual differences \$(683,524)
- C. Yes, the adjustments approved in the 2020 rates were reversed in this proceeding
- D. Hydro Ottawa confirms.

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Ontario Energy Board 1595 Analysis Workform

Account 1595 Analysis Workform

Input cells			
Drop down cells			
	Utility Name	Hydro Ottawa Limited	

Please select "yes" for the 1595 Rate Years being Requested for Disposition

2012 No 2013 No 2014 No 2015 No 2016 Yes 2017 Yes Version 1.0

Utility name must be selected



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Step 1

Components of the 1595 Account Balances:			Carrying Charges Balance Approved for Disposition	for Disposition	, , , , , , , , , , , , , , , , , , , ,	Approved for Disposition	Account Balances	Total Residual Balances	Collections/Returns Variance (%)
Total Group 1 and Group 2 Balances excluding Account 1589 - Global Adjustment		-\$17,118,291	-\$162,372	-\$17,280,663		-\$94,839	\$55,284		0.5%
Account 1589 - Global Adjustment		\$12,168,610		\$12,321,399		\$176,553	-\$72,388		1.4%
Total Group 1 and Group 2 Balances		-\$4,949,681	-\$9,583	-\$4,959,264	-\$5,040,977	\$81,714	-\$17,105		-1.6%
Total residual balance per continuity schedule:							\$64,609		
						Difference (any var	riance should be explained):	\$0	

*Unresolved differences of +/- 10% require further analysis and explanation. Amounts originally approved for disposition based on forecasted consumption or number of customers must be compared to actual figures

Additional Notes and Comments									



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Step 1

Components of the 1595 Account Balances:		Carrying Charges Balance Approved for Disposition	Total Balances Approved for Disposition		Approved for Disposition		Total Residual Balances	Collections/Returns Variance (%)
Total Group 1 and Group 2 Balances excluding Account 1589 - Global Adjustment	-\$15,125,232		-\$15,165,169		-\$197,985		-\$298,327	1.3%
Account 1589 - Global Adjustment	-\$6,949,342		-\$7,079,225	-\$6,919,236	-\$159,989	-\$42,703	-\$202,692	2.3%
Total Group 1 and Group 2 Balances	-\$22,074,574	-\$169,820	-\$22,244,394	-\$21,886,420	-\$357,974	-\$143,045	-\$501,019	1.6%
Total residual balance per continuity schedule:								,
					Difference (any va	riance should be explained).	\$0	

*Unresolved differences of +/- 10% require further analysis and explanation. Amounts originally approved for disposition based on forecasted consumption or number of customers must be compared to actual figures

Additional Notes and Comments									



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Step 1

Components of the 1595 Account Balances:		Carrying Charges Balance Approved for Disposition	Total Balances Approved for Disposition	Rate Rider Amounts Collected/(Returned)	Residual Balances Pertaining to Principal and Carrying Charges Approved for Disposition		Total Residual Balances	Collections/Returns Variance (%)
Total Group 1 and Group 2 Balances excluding Account 1589 - Global Adjustment	-\$8,980,706	-\$285,512	-\$9,266,218	-\$8,917,384	-\$348,834	-\$87,061		3.8%
Account 1589 - Global Adjustment	-\$2,752,700		-\$2,772,157		-\$228,727	-\$33,369		8.3%
Total Group 1 and Group 2 Balances	-\$11,733,407	-\$304,969	-\$12,038,376	-\$11,460,814	-\$577,561	-\$120,431		4.8%
					Total residual balar	nce per continuity schedule:	-\$697,992	
					Difference (any va	riance should be explained):	\$0	

*Unresolved differences of +/- 10% require further analysis and explanation. Amounts originally approved for disposition based on forecasted consumption or number of customers must be compared to actual figures.

Additional Notes and Comments									