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CALCULATION OF REVENUE DEFICIENCY OR SUFFICIENCY

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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 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.

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CALCULATION OF DEFICIENCY OR SUFFICIENCY 2.

The revenue deficiency/sufficiency for 2021-2025 was calculated using the following inputs:

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• 2020 proposed rates; and

19 20 • 2021-2025 load forecast and forecast of customers and connections, as developed using the methodology described in Exhibit 3-1-1: Load Forecast.

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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. Hydro Ottawa compiled the analysis in this matter, as the 2020 rates give a stable base upon which to compare each year.



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2.1. REVENUE DEFICIENCY/SUFFICIENCY 2016-2020

Table 1 outlines the revenue deficiency/sufficiency for 2016-2020 using the following inputs:

2016-2020 approved load forecast and forecast of customers/connections; and

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2015 approved rates;

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• 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

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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)

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

² Ontario Energy Board, *Decision and Rate Order on Pole Attachment Charge*, EB-2015-0004 (February 25, 2016).



2.2. REVENUE DEFICIENCY/SUFFICIENCY 2021-2025

Table 2 below shows 2021-2025 base revenue requirement calculations. More details for each year can be found in the Revenue Requirement Workforms ("RRWF") attached to this Schedule:

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- Attachment 6-1-1(A): OEB Workform 2021 Revenue Requirement Workform
- Attachment 6-1-1(B): OEB Workform 2022 Revenue Requirement Workform
- Attachment 6-1-1(C): OEB Workform 2023 Revenue Requirement Workform
- Attachment 6-1-1(D): OEB Workform 2024 Revenue Requirement Workform
- Attachment 6-1-1(E): OEB Workform 2025 Revenue Requirement Workform

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The references to Costs Allocated from Previous Study and Previously Approved Ratios on Sheet 11 Cost Allocation in the RRWF Workforms refer to 2020 in each case. In addition, the difference in Sheet 11 Cost Allocation between columns (7C) and (7D) is the difference between allocated Base Revenue Requirement and achieved Base Revenue Requirement.

Table 2 – Revenue Deficiency/Sufficiency for 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 ³	\$(17,060)	\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)

³ Totals may not sum due to rounding.



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Table 3 provides Revenue Deficiency that is calculated by multiplying the previous Test Year's rates against the current Test Year's load forecast.

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Table 3 – 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)

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3. YEAR-OVER-YEAR REVENUE DEFICIENCY/SUFFICIENCY

Table 4 below provides the 2020-2021 year-over-year revenue deficiency/sufficiency amounts and major cost drivers. The references to other Exhibits in this Application indicate where additional details on year-over-year variance and cost drivers can be found.

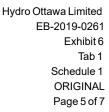




Table 4 – 2020-2021 Revenue Deficiency Amounts & Cost Drivers (\$'000s)⁴

Driver of Deficiency	2020 OEB- Approved⁵	2021 Test Year	+/-	Cost Drivers	Exhibit Reference
Return on Rate Base	\$56,211	\$67,489	\$11,278	 \$173.8M increase in net fixed assets Previously excluded items added back to rate base 	2-1-1
Distribution Expenses (not including amortization)	\$89,007	\$93,923	\$4,916	Increases in compensationInflationary increasesIncrease in distributionoperations 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 ⁶	\$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)			

- Table 5 provides the 2020-2025 year-over-year revenue requirement amounts, the increase or
- 4 decrease from prior test year, major cost drivers, and references to Exhibits where further
- 5 information on the drivers can be found.

⁴ Totals may not sum due to rounding.

⁵ This figure includes mid-term adjustments.

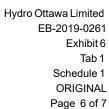
⁶ The amount for 2020 includes adjustments as per the OEB's Pole Attachment Decision (see footnote 2 above).



Table 5 – 2021-2025 Revenue Deficiency Amounts & Drivers (\$'000s)¹

		Bridge ²			Test			Drivers	Reference	
		2020	2021	2022	2023	2024	2025	Bilvers	Reference	
Return on Rate Base	\$	\$66,298	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624	Annual increases in net fixed assets and working capital	2-1-1	
	+/-		\$1,191	\$6,099	\$3,853	\$2,419	\$4,763	• .		
Distribution Expenses (not including	\$	\$91,990	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714	Annual inflationary increases and increases in compensation	1-1-8 (Table 6) 4-1-3	
amortization)	+/-		\$1,933	\$2,357	\$2,417	\$2,477	\$2,539		4-1-4	
Amortization	\$	\$50,723	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027	Annual increases in sustainment additions	2-2-1 2-2-1(E)-(J) 2-4-3(E)	
	+/-		\$1,727	\$4,410	\$2,282	\$1,570	\$3,315		6-6-1 (Table 3)	
Doymont in Liquid	\$	\$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	4-4-1	
Payment in Lieu of Taxes	+/-		\$(1,338)	\$4,187	\$3,555	\$2,894	\$(3,970)	assets placed into service 2022-2024 - Increases due to higher accounting depreciation and lower accelerated CCA	4-4-1 4-4-1(D)-(H)	
Service Revenue Requirement	\$	\$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			

¹ Totals may not sum due to rounding. ² Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory Accounts.



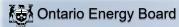


		Bridge ³ (Cont'd)		Т	est (Cont'd)		Drivers (Cont'd)	Reference (Cont'd)
		2020	2021	2022	2023	2024	2025		(Cont u)
Less Revenue Offsets	\$	\$10,268	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457	Inflationary increases and changes to other revenue rates	3-2-1
	+/-		\$709	\$36	\$654	\$484	\$305		
Base Revenue Requirement				6-1-1(A) 8-1-1					
	+/-		\$2,803	\$17,017	\$11,452	\$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
Ownording Ground	+/-		\$(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	Annual changes in load forecast Impact of revenue requirement item in	3-1-1 9-1-3
	+/-		\$27,441	\$928	\$882	\$987	\$765	Regulatory Accounts	
Cumulative Revenue Deficiency	\$		(\$17,060)	(\$33,149)	(\$43,719)	(\$51,609)	(\$57,014)		
(over 2020)	+/-			\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)		

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³ Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory Accounts.

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Revenue Requirement Workform (RRWF) for 2020 Filers



Version 9.00

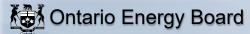
Utility Name	Hydro Ottawa Limited
Service Territory	
Assigned EB Number	EB-2019-0261
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs
Phone Number	613-738-5499 ext 7472
Email Address	RegulatoryAffairs@HydroOttawa.com
Test Year	2021
Bridge Year	
Last Rebasing Year	<u>2016</u>

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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Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Regt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

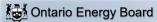
6. Taxes PILs 13. Rate Design and Revenue Reconciliation

7. Cost_of_Capital 14. Tracking Sheet

Notes:

(1)	Pa	le green	cells re	present	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.



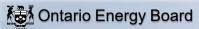
Data Input (1)

	_	Initial Application	(2)		(6)		Board cision	
1	Rate Base							
	Gross Fixed Assets (average) Accumulated Depreciation (average) Allowance for Working Capital:	\$1,444,394,960 (\$309,700,143)	(5)	\$1,444,394,960 (\$309,700,143)			4,394,960 9,700,143)	
	Controllable Expenses Cost of Power	\$93,922,657 \$1,025,612,762		\$ 93,922,657 \$1,025,612,762			3,922,657 5,612,762	
	Working Capital Rate (%)	7.50%	(9)		(9)		(9)	
2	Utility Income Operating Revenues: Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates	\$186,849,349 \$203,908,920	(10)					
	Other Revenue: Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$5,118,168 \$1,000,000 \$2,789,981 \$2,069,167						
	Total Revenue Offsets	\$10,977,316	(7)					
	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Other expenses	\$90,790,555 \$52,450,059 \$3,132,102		\$ 90,790,555 \$ 52,450,059 \$ 3,132,102		\$52	0,790,555 2,450,059 3,132,102	
3	Taxes/PILs							
J	Taxable Income: Adjustments required to arrive at taxable income	(\$40,125,534)	(3)					
	Utility Income Taxes and Rates:							
	Income taxes (not grossed up)	\$752,736						
	Income taxes (grossed up) Federal tax (%)	\$1,024,131 15.00%						
	Provincial tax (%) Income Tax Credits	11.50% 11.50% (\$85,000)						
4	Capitalization/Cost of Capital Capital Structure:							
	Long-term debt Capitalization Ratio (%) Short-term debt Capitalization Ratio (%) Common Equity Capitalization Ratio (%) Prefered Shares Capitalization Ratio (%)	56.0% 4.0% 40.0%	(8)		(8)		(8)	
	Cost of Capital Long-term debt Cost Rate (%) Short-term debt Cost Rate (%) Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	3.35% 2.75% 8.88%						

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 (%)
- 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.

 (10) Revenue at 2020 rates minus 2021 Transformer Ownership Allowance



Rate Base and Working Capital

Rate Base

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Line No.	Particulars		Initial Application				Per Board Decision
1	Gross Fixed Assets (average)	(2)	\$1,444,394,960	\$ -	\$1,444,394,960	\$ -	\$1,444,394,960
2	Accumulated Depreciation (average)	(2)	(\$309,700,143)	\$ -	(\$309,700,143)	\$ -	(\$309,700,143)
3	Net Fixed Assets (average)	(2)	\$1,134,694,817	\$ -	\$1,134,694,817	\$ -	\$1,134,694,817
4	Allowance for Working Capital	(1)	\$83,965,156	(\$83,965,156)	<u> </u>	\$ -	<u> </u>
5	Total Rate Base		\$1,218,659,973	(\$83,965,156)	\$1,134,694,817	\$ -	\$1,134,694,817

(1) Allowance for Working Capital - Derivation

Controllable Expenses Cost of Power Working Capital Base		\$93,922,657 \$1,025,612,762 \$1,119,535,420	\$ - \$ - \$ -	\$93,922,657 \$1,025,612,762 \$1,119,535,420	\$ - \$ - \$ -	\$93,922,657 \$1,025,612,762 \$1,119,535,420
Working Capital Rate %	(1)	7.50%	-7.50%	0.00%	0.00%	0.00%
Working Capital Allowance		\$83,965,156	(\$83,965,156)	\$ -	\$ -	\$ -

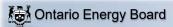
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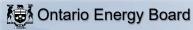
Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.



Utility Income

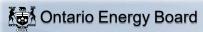
Line No.	Particulars	Initial Application				Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$203,908,920	(\$203,908,920)	\$ -	\$ -	\$ -
2	Other Revenue	\$10,977,316	(\$10,977,316)	\$ -	\$ -	\$ -
3	Total Operating Revenues	\$214,886,236	(\$214,886,236)	\$ -	\$ -	\$ -
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 \$- \$-	\$ - \$ - \$ - \$ - \$ -	\$90,790,555 \$52,450,059 \$3,132,102 \$-	\$ - \$ - \$ - \$ - \$ -	\$90,790,555 \$52,450,059 \$3,132,102 \$-
9	Subtotal (lines 4 to 8)	\$146,372,716	\$ -	\$146,372,716	\$ -	\$146,372,716
10	Deemed Interest Expense	\$24,202,587	(\$24,202,587)	<u> </u>	<u> </u>	<u> </u>
11	Total Expenses (lines 9 to 10)	\$170,575,303	(\$24,202,587)	\$146,372,716	<u> </u>	\$146,372,716
12	Utility income before income taxes	\$44,310,933	(\$190,683,649)	(\$146,372,716)	\$ -	(\$146,372,716)
13	Income taxes (grossed-up)	\$1,024,131	\$ -	\$1,024,131	\$ -	\$1,024,131
14	Utility net income	\$43,286,803	(\$190,683,649)	(\$147,396,847)	<u> </u>	(\$147,396,847)
<u>Notes</u>	Other Revenues / Revenues	nue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$5,118,168 \$1,000,000 \$2,789,981 \$2,069,167		\$ - \$ - \$ - \$ -		\$ - \$ - \$ - \$ -
	Total Revenue Offsets	\$10,977,316	<u> </u>	\$-	<u> </u>	<u> </u>



Taxes/PILs

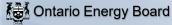
Line No.	Particulars	Application		Per Board Decision
	<u>Determination of Taxable Income</u>			
1	Utility net income before taxes	\$43,286,802	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$40,125,534)	\$-	\$ -
3	Taxable income	\$3,161,268	\$ -	<u> </u>
	Calculation of Utility income Taxes			
4	Income taxes	\$752,736	\$752,736	\$752,736
6	Total taxes	\$752,736	\$752,736	\$752,736
7	Gross-up of Income Taxes	\$271,395	\$271,395	\$271,395
8	Grossed-up Income Taxes	\$1,024,131	\$1,024,131	\$1,024,131
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$1,024,131	\$1,024,131	\$1,024,131
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	Capital	lization Ratio	Cost Rate	Return
		Initial	Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$682,449,585	3.35%	\$22,862,061
2	Short-term Debt	4.00%	\$48,746,399	2.75%	\$1,340,526
3	Total Debt	60.00%	\$731,195,984	3.31%	\$24,202,587
	Equity				
4	Common Equity	40.00%	\$487,463,989	8.88%	\$43,286,802
5	Preferred Shares	0.00%	\$-	0.00%	\$ -
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
-			¥ 1,= 10,100,000		
		(%)	(\$)	(%)	(\$)
	Debt	()	(1)	(/	(**)
1	Long-term Debt	0.00%	\$ -	0.00%	\$ -
2	Short-term Debt	0.00%	\$ -	0.00%	<u> </u>
3	Total Debt	0.00%	<u> </u>	0.00%	<u> </u>
	Equity				
4	Common Equity	0.00%	\$ -	0.00%	\$ -
5	Preferred Shares	0.00%	<u> </u>	0.00%	\$ -
6	Total Equity	0.00%	<u> </u>	0.00%	<u> </u>
7	Total	0.00%	\$1,134,694,817	0.00%	<u> </u>
		Per Bo	ard Decision		
	Debt	(%)	(\$)	(%)	(\$)
8	Long-term Debt	0.00%	\$ -	3.35%	\$ -
9	Short-term Debt	0.00%	\$ -	2.75%	\$ -
10	Total Debt	0.00%	\$ -	0.00%	\$ -
	Equity				
11	Common Equity	0.00%	\$ -	8.88%	\$ -
12 13	Preferred Shares Total Equity	0.00%	<u> </u>	0.00%	\$ - \$ -
	rotal Equity	0.0070	Ψ-	0.0070	Ψ-
14	Total	0.00%	\$1,134,694,817	0.00%	\$ -
Notes					

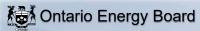


Revenue Deficiency/Sufficiency

		Initial Appl	ication			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	Revenue Deficiency from Below Distribution Revenue	\$186,849,349	\$21,701,279 \$182,207,641	\$186,849,349	(\$55,059,309) \$258,968,229	\$ -	\$199,146,552 (\$199,146,552)
3	Other Operating Revenue Offsets - net	\$10,977,316	\$10,977,316	\$ -	\$ -	\$ -	\$ -
4	Total Revenue	\$197,826,666	\$214,886,236	\$186,849,349	\$203,908,920	\$ -	\$ -
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	\$146,372,716 \$ - \$146,372,716	\$146,372,716 \$ - \$146,372,716	\$146,372,716 \$ - \$146,372,716	\$146,372,716 \$ - \$146,372,716
9	Utility Income Before Income Taxes	\$27,251,363	\$44,310,933	\$40,476,633	\$57,536,204	(\$146,372,716)	(\$146,372,716)
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	\$ -	\$ -
11	Taxable Income	(\$12,874,171)	\$4,185,399	\$351,099	\$17,410,670	(\$146,372,716)	(\$146,372,716)
12 13	Income Tax Rate	26.50% \$ -	26.50% \$1,109,131	26.50% \$93,041	26.50% \$4,613,828	26.50% \$ -	26.50% \$ -
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$27,336,363	(\$85,000) \$43,286,803	(\$85,000) \$40,468,592	(\$85,000) (\$147,396,847)	\$ - (\$146,372,716)	\$ - (\$147,396,847)
16	Utility Rate Base	\$1,218,659,973	\$1,218,659,973	\$1,134,694,817	\$1,134,694,817	\$1,134,694,817	\$1,134,694,817
17	Deemed Equity Portion of Rate Base	\$487,463,989	\$487,463,989	\$ -	\$ -	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	5.61%	8.88%	0.00%	0.00%	0.00%	0.00%
19	Target Return - Equity on Rate Base	8.88%	8.88%	0.00%	0.00%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	-3.27%	0.00%	0.00%	0.00%	0.00%	0.00%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	4.23% 5.54%	5.54% 5.54%	3.57% 0.00%	0.00% 0.00%	-12.90% 0.00%	0.00% 0.00%
23	Deficiency/Sufficiency in Rate of Return	-1.31%	0.00%	3.57%	0.00%	-12.90%	0.00%
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	\$ - (\$40,468,592) (\$55,059,309) (1)	\$ - \$ -	\$ - \$146,372,716 \$199,146,552 (1)	\$ - \$ -

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Revenue Requirement

Line No.	Particulars	Application		Per Board Decision
1	OM&A Expenses	\$90,790,555	\$90,790,555	\$90,790,555
2	Amortization/Depreciation	\$52,450,059	\$52,450,059	\$52,450,059
3	Property Taxes	\$3,132,102	\$3,132,102	\$3,132,102
5	Income Taxes (Grossed up)	\$1,024,131	\$1,024,131	\$1,024,131
6	Other Expenses	\$ -	+ 1,== 1,1=1	+ 1,= 1, 1 - 1
7	Return	•		
	Deemed Interest Expense	\$24,202,587	\$ -	\$ -
	Return on Deemed Equity	\$43,286,802	\$ -	\$ -
8	Service Revenue Requirement			
	(before Revenues)	\$214,886,236	\$147,396,847	\$147,396,847
_				
9	Revenue Offsets	\$10,977,316	<u> </u>	<u> </u>
10	Base Revenue Requirement	\$203,908,920	\$147,396,847	\$147,396,847
	(excluding Tranformer Owership Allowance credit adjustment)			
11	Distribution revenue	\$203,908,920	\$ -	\$ -
12	Other revenue	\$10,977,316	<u> </u>	<u> </u>
13	Total revenue	\$214,886,236	\$ -	\$-
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	\$1	(1) (\$147.396.847)	(1) (\$147,396,847) ⁽¹⁾
	Soloto Nevertues,	\$1	(φ141,390,841)	(\$147,380,047)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

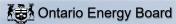
Application		$\Delta\%^{~(2)}$	Per Board Decision	Δ% (2)
\$214,886,236	\$147,396,847	(\$0)	\$147,396,847	(\$1
\$21,701,279	(\$55,059,309)	(\$4)	\$199,146,552	(\$1
\$203,908,920	\$147,396,847	(\$0)	\$147,396,847	(\$1
	\$214,886,236 \$21,701,279	\$214,886,236 \$147,396,847 \$21,701,279 (\$55,059,309)	\$214,886,236 \$147,396,847 (\$0) \$21,701,279 (\$55,059,309) (\$4)	\$214,886,236 \$147,396,847 (\$0) \$147,396,847 \$21,701,279 (\$55,059,309) (\$4) \$199,146,552

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-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:

	Customer Class
	Input the name of each customer class.
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	
19	
20	

Initial Application
Initial Application

	 itiai Application	
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	2,253,081,000 700,163,000 2,819,476,000 682,977,000 574,292,000 22,107,000 47,000 13,602,000	6,816,104 1,518,349 1,052,899 61,588 132 7,440

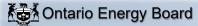
Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ Annual

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 - - - -

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: Initial Application

A) Allocated Costs

Name of Customer Class (3)	s Allocated from evious Study (1)	%	_	Allocated Class enue Requirement	%	
From Sheet 10. Load Forecast				(1) (7A)		
Residential GS < 50 kW	\$ 107,281,788	53.50% 10.30%	\$	118,467,234	55.13%	
GS < 50 kW GS > 50 to 1,499 kW	\$ 20,646,221 48,750,762	24.31%	\$ \$	21,458,225 53,434,771	9.99% 24.87%	
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	11,287,559	5.25%	
Large Use	\$ 8,063,832	4.02%	\$	8,700,527	4.05%	
Street Lighting	\$ 1,811,439	0.90%	\$	971,554	0.45%	
Sentinel Lighting	\$ 6,568	0.00%	\$	9,764	0.00%	
Unmetered Scattered Load	\$ 547,549	0.27%	\$	543,397	0.25%	
Standby Power	\$ 70,655	0.04%	\$	13,205	0.01%	
Total	\$ 200,544,060	100.00%	\$	214,886,236	100.00%	
		Service Revenue Requirement (from Sheet 9)	\$	214,886,235.87		

- (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.

B) Calculated Class Revenues

Name of Customer Class		Load Forecast (LF) X current approved rates		F X current proved rates X (1+d)	LF X	LF X Proposed Rates Miscellaneous Revenues		
		(7B)		(7C)		(7D)		(7E)
Residential GS < 50 kW GS > 50 to 1,499 kW GS > 1,500 to 4,999 kW Large Use Street Lighting Sentinel Lighting	* * * * * * * *	105,495,064 23,390,724 40,380,098 9,791,229 6,161,375 1,076,396 4,052	\$ \$ \$ \$ \$ \$ \$	115,126,861 25,526,319 44,066,838 10,685,177 6,723,915 1,174,672 4,422	\$ \$ \$ \$ \$ \$ \$	115,137,290 24,718,302 44,338,210 10,747,637 7,247,862 1,114,249 4,955	\$\$\$\$\$\$\$	8,057,257 981,476 1,388,172 271,430 190,940 51,613 879
Unmetered Scattered Load Standby Power	\$ \$	532,015 18,443	\$	580,589 20,126	\$	580,271 20,126	\$	35,117 433
Total	\$	186,849,396	\$	203,908,920	\$	203,908,902	\$	10,977,316

⁽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,

C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year: 2016	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	%	%	%	%
1 Residential	104.29%	103.98%	103.99%	85 - 115
2 GS < 50 kW	118.23%	123.53%	119.77%	80 - 120
GS > 50 to 1,499 kW	86.34%	85.07%	85.57%	80 - 120
4 GS > 1,500 to 4,999 kW	98.24%	97.07%	97.62%	80 - 120
5 Large Use	85.36%	79.48%	85.50%	85 - 115
Street Lighting	80.00%	126.22%	120.00%	80 - 120
Sentinel Lighting	76.00%	54.29%	59.75%	80 - 120
8 Unmetered Scattered Load	118.72%	113.31%	113.25%	80 - 120
Standby Power	21.03%	155.69%	155.69%	80 - 120
1				
2				
3				
4				
5				
6				
7				
3				
9				

⁽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.

⁽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".

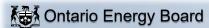
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

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(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Policy Range							
	Test Year	Test Year Price Cap IR Period							
	2021	2022	2023						
1 Residential	103.99%	103.99%	103.99%	85 - 115					
2 GS < 50 kW	119.77%	119.77%	119.77%	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	97.62%	97.62%	97.62%	80 - 120					
5 Large Use	85.50%	85.50%	85.50%	85 - 115					
6 Street Lighting	120.00%	120.00%	120.00%	80 - 120					
7 Sentinel Lighting	59.75%	59.75%	59.75%	80 - 120					
8 Unmetered Scattered Load	113.25%	113.25%	113.25%	80 - 120					
9 Standby Power	155.69%	155.69%	155.69%	80 - 120					
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
20									

⁽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'.



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 Re	sident	ial Class								
Customers		316,346								
kWh		2,253,081,000								
Proposed Residential Class Specific Revenue	\$	115,137,290.16								
Requirement ¹										
·										
Residential Base Rates on Curr	Residential Base Rates on Current Tariff									
Monthly Fixed Charge (\$)	\$	30.33								
Distribution Volumetric Rate (\$/kWh)	\$	-								

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	30.33	316,346	\$ 115,137,290.16	100.00%
Variable	0	2,253,081,000	\$ -	0.00%
TOTAL	-	-	\$ 115,137,290.16	-

C Calculating Test Year Base Rates

Transition Years ²	_
Transition rears	0

	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	\$ 115,137,290.16	30.33	\$	115,137,290.16	
Variable	\$ -	0	\$	-	
TOTAL	\$ 115,137,290.16	-	\$	115,137,290.16	

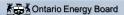
	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$ -	•	

Checks ³	
Change in Fixed Rate	
Difference Between Revenues @ Proposed Rates	
and Class Specific Revenue Requirement	

Notes:

- 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/year, put "1" in cell D40.
- 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

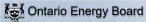
Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluemtric 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/FILs, etc.

Stage in Process: Initial Application					Cla	ss Allocated Rever	nues				Distribution Rates					Revenue Reconciliati	on
				n Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design			Fixed / Variable Splits ² Percentage to be entered as a fraction between 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 Servi	No. of decimals	Volur	netric Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
Residential	ISOVID SOVID SOVI SOVI SOVI SOVI SOVI SOVID SOVID	316,346 25,391 3,120 68 111 62,806 55 3,321 3	2,253,081,000 700,163,000 2,819,476,000 682,977,000 574,292,000 22,107,000 13,602,000	6,816,104 1,518,349 1,052,899 61,588 132 7,440	\$ 115,137,290 \$ 24,718,302 \$ 44,338,210 \$ 10,747,637 \$ 7,247,862 \$ 1,114,249 \$ 4,955 \$ 590,271 \$ 20,126	\$ 115,137,290 \$ 6,233,998 \$ 7,487,837 \$ 3,422,246 \$ 2,010,534 \$ 708,452 \$ 2,561 \$ 221,179 \$ 5,702	\$ 18,484,303 \$ 36,850,373 \$ 7,325,390 \$ 5,237,328 \$ 405,797 \$ 2,394 \$ 359,093 \$ 14,425	100,00%, 52,22%, 16,80%, 31,84%, 27,74%, 63,58%, 51,68%, 33,12%, 28,33%,	0.00% 74.78% 83.11% 68.16% 72.26% 36.42% 61.88% 71.67%	\$ 343,225 \$ 397,085 \$ 315,767	\$30.33 \$20.46 \$200.00 \$4,193.93 \$15,231.32 \$0.94 \$3.88 \$5.55 \$158.38		\$0.0264 \$5.4567 \$5.0861 \$5.2741 \$6.5889 \$18.1382 \$0.0264	A PANN 4 PANN PANN PANN PANN PANN PANN PANN PANN	######################################	\$18,484,303.2000 \$37,193,434,6988 \$5,553,094,6159 \$ 5,553,094,6159 \$ 2,394,2424 \$ 2,394,2424 \$ 14,424,6720 \$ 14,424,6720 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	######################################
							Т	otal Transformer Own	ership Allowance	\$ 1,056,077					Total Distribution R		**********
Notes: 1 Transformer Ownership Allowance is	Diff										Base Revenue Requi Difference % Difference	uirement	-\$ 18.0 0.000				

The Fixed/Variable split, for each customer class, drives the "tale 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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Revenue Requirement Workform (RRWF) for 2020 Filers

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.)

Summary of Proposed Changes

		Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Оре	erating Expense	es		Revenue R	lequirement	
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	\$ 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	\$ 21,701,27

⁽²⁾ Short description of change, issue, etc.

Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2020 Filers



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

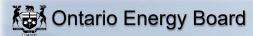
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion 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.

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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

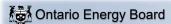
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1)) Pa	le green	cells re	present	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.



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Data Input (1)

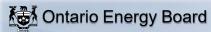
		Initial Application	(2)			(6)	Per Board Decision	_
1	Rate Base Gross Fixed Assets (average) Accumulated Depreciation (average) Allowance for Working Capital:	\$1,576,350,307 (\$361,938,366)	(5)		,576,350,307 (361,938,366)		\$1,576,350,307 (\$361,938,366)	
	Controllable Expenses Cost of Power Working Capital Rate (%)	\$96,280,116 \$1,097,187,257 7.50%	(9)	\$ \$1	96,280,116 ,097,187,257	(9)	\$96,280,116 \$1,097,187,257	(9)
2	Utility Income Operating Revenues:							
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$187,777,386 \$220,926,272						
	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$5,394,162 \$1,000,000 \$2,885,203 \$1,733,539						
	Total Revenue Offsets	\$11,012,904	(7)					
	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Other expenses	\$93,069,398 \$56,860,206 \$3,210,718		\$ \$ \$	93,069,398 56,860,206 3,210,718		\$93,069,398 \$56,860,206 \$3,210,718	
3	Taxes/PILs Taxable Income:							
	Adjustments required to arrive at taxable income	(\$32,846,126)	(3)					
	Utility Income Taxes and Rates: Income taxes (not grossed up)	\$3,829,873						
	Income taxes (grossed up)	\$5,210,712						
	Federal tax (%) Provincial tax (%) Income Tax Credits	15.00% 11.50% (\$85,000)						
4	Capitalization/Cost of Capital Capital Structure:							
	Long-term debt Capitalization Ratio (%) Short-term debt Capitalization Ratio (%) Common Equity Capitalization Ratio (%)	56.0% 4.0% 40.0%	(8)			(8)		(8)
	Prefered Shares Capitalization Ratio (%)	100.0%						
	Cost of Capital							
	Long-term debt Cost Rate (%) Short-term debt Cost Rate (%) Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	3.36% 2.75% 9.13%						

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
- 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	Ba	se

Line No.	Particulars	-	Initial Application				Per Board Decision
1	Gross Fixed Assets (average)	(2)	\$1,576,350,307	\$ -	\$1,576,350,307	\$ -	\$1,576,350,307
2	Accumulated Depreciation (average)	(2)	(\$361,938,366)	\$ -	(\$361,938,366)	\$ -	(\$361,938,366)
3	Net Fixed Assets (average)	(2)	\$1,214,411,941	\$ -	\$1,214,411,941	\$ -	\$1,214,411,941
4	Allowance for Working Capital	(1)	\$89,510,053	(\$89,510,053)	\$-	<u> </u>	\$ -
5	Total Rate Base	_	\$1,303,921,994	(\$89,510,053)	\$1,214,411,941	\$ -	\$1,214,411,941

(1) Allowance for Working Capital - Derivation

Controllable Expenses Cost of Power Working Capital Base		\$96,280,116 \$1,097,187,257 \$1,193,467,373	\$ - \$ - \$ -	\$96,280,116 \$1,097,187,257 \$1,193,467,373		\$ - \$ - \$ -	\$96,280,116 \$1,097,187,257 \$1,193,467,373
Working Capital Rate %	(1)	7.50%	-7.50%	0.00%		0.00%	0.00%
Working Capital Allowance		\$89,510,053	(\$89,510,053)	\$ -	=	\$ -	\$ -

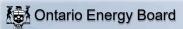
Notes

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				Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$220,926,272	(\$220,926,272)	\$ -	\$ -	\$ -
2	Other Revenue (1	\$11,012,904	(\$11,012,904)	<u> </u>	\$ -	\$ -
3	Total Operating Revenues	\$231,939,176	(\$231,939,176)	\$ -	\$ -	\$ -
4 5 6 7 8 9 10 11	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense Subtotal (lines 4 to 8) Deemed Interest Expense Total Expenses (lines 9 to 10) Utility income before income	\$93,069,398 \$56,860,206 \$3,210,718 \$- \$- \$153,140,322 \$25,968,910 \$179,109,232	\$ - \$ - \$ - \$ - \$ - \$ - (\$25,968,910) (\$25,968,910)	\$93,069,398 \$56,860,206 \$3,210,718 \$- \$153,140,322 \$- \$153,140,322	\$ - \$ - \$ - \$ - \$ - \$ -	\$93,069,398 \$56,860,206 \$3,210,718 \$- \$153,140,322 \$- \$153,140,322
	taxes	\$52,829,944	(\$205,970,266)	(\$153,140,322)	<u> </u>	(\$153,140,322)
13	Income taxes (grossed-up)	\$5,210,712	\$ -	\$5,210,712	\$ -	\$5,210,712
14	Utility net income	\$47,619,232	(\$205,970,266)	(\$158,351,033)	\$ -	(\$158,351,033)
<u>Notes</u>	Other Revenues / Revenues	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions Total Revenue Offsets	\$5,394,162 \$1,000,000 \$2,885,203 \$1,733,539 \$11,012,904	<u> </u>	\$ - \$ - \$ - \$ - \$ -	\$-	\$ - \$ - \$ - \$ - \$ -

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Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application		Per Board Decision
	<u>Determination of Taxable Income</u>			
1	Utility net income before taxes	\$47,619,231	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$32,846,126)	\$ -	\$ -
3	Taxable income	\$14,773,105	\$ -	\$ -
	Calculation of Utility income Taxes			
4	Income taxes	\$3,829,873	\$3,829,873	\$3,829,873
6	Total taxes	\$3,829,873	\$3,829,873	\$3,829,873
7	Gross-up of Income Taxes	\$1,380,839	\$1,380,839	\$1,380,839
8	Grossed-up Income Taxes	\$5,210,712	\$5,210,712	\$5,210,712
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$5,210,712	\$5,210,712	\$5,210,712
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

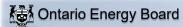
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Revenue Requirement Workform Attachment B ORIGINAL (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capitalization Ratio		Cost Rate	Return
		Initial A	Application		
	Debt	(%)	(\$)	(%)	(\$)
1 2 3	Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$730,196,317 \$52,156,880 \$782,353,196	3.36% 2.75% 3.32%	\$24,534,596 \$1,434,314 \$25,968,910
	Equity				
4 5 6	Common Equity Preferred Shares Total Equity	40.00% 0.00% 40.00%	\$521,568,798 \$ - \$521,568,798	9.13% 0.00% 9.13%	\$47,619,231 \$ - \$47,619,231
7	Total Equity	100.00%	\$1,303,921,994	5.64%	\$73,588,142
,	Total	100.00%	\$1,303,921,994	5.04%	\$73,588,142
	Date	(%)	(\$)	(%)	(\$)
1	Long-term Debt	0.00%	\$ -	0.00%	\$ -
2 3	Short-term Debt Total Debt	0.00%	\$ - \$ -	0.00%	\$ - \$ -
	Equity				
4 5	Common Equity Preferred Shares	0.00% 0.00%	\$ - \$ -	0.00% 0.00%	\$ - \$ -
6	Total Equity	0.00%	\$ -	0.00%	<u> </u>
7	Total	0.00%	\$1,214,411,941	0.00%	<u> </u>
		Per Boa	rd Decision		
		(%)	(\$)	(%)	(\$)
8 9 10	Long-term Debt Short-term Debt Total Debt	0.00% 0.00% 0.00%	\$ - \$ - \$ -	3.36% 2.75% 0.00%	\$ - \$ - \$ -
11 12	Equity Common Equity Preferred Shares	0.00%	\$ - \$ -	9.13%	\$-
13	Total Equity	0.00%	\$ -	0.00%	<u> </u>
14	Total	0.00%	\$1,214,411,941	0.00%	<u> </u>
Notes					



Revenue Deficiency/Sufficiency

		Initial Appl	ication			Per Board I	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	Revenue Deficiency from Below		\$37,895,475		(\$46,595,191)		\$208,354,179
2	Distribution Revenue	\$187,777,386	\$183,030,797	\$187,777,386	\$267,521,463	\$ -	(\$208,354,179)
3	Other Operating Revenue Offsets - net	\$11,012,904	\$11,012,904	\$ -	\$ -	\$ -	\$ -
4	Total Revenue	\$198,790,290	\$231,939,176	\$187,777,386	\$220,926,272	\$ -	\$ -
5	Operating Expenses	\$153,140,322	\$153,140,322	\$153,140,322	\$153,140,322	\$153,140,322	\$153,140,322
6	Deemed Interest Expense	\$25,968,910	\$25,968,910	\$ -	\$ -	\$ -	\$ -
8	Total Cost and Expenses	\$179,109,232	\$179,109,232	\$153,140,322	\$153,140,322	\$153,140,322	\$153,140,322
9	Utility Income Before Income Taxes	\$19,681,057	\$52,829,944	\$34,637,064	\$67,785,950	(\$153,140,322)	(\$153,140,322)
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	\$ -	\$ -
11	Taxable Income	(\$13,165,069)	\$19,983,818	\$1,790,938	\$34,939,824	(\$153,140,322)	(\$153,140,322)
12	Income Tax Rate	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
13		\$ -	\$5,295,712	\$474,599	\$9,259,053	\$ -	\$ -
	Income Tax on Taxable Income	(005.000)	(005.000)	(005.000)	(005,000)	•	•
14 15	Income Tax Credits Utility Net Income	(\$85,000) \$19,766,057	(\$85,000) \$47,619,232	(\$85,000) \$34,247,465	(\$85,000)	\$ - (\$153,140,322)	\$ - (\$158,351,033)
	culty recombonic	ψ13,700,037	ψ+1,013,232	Ψ04,247,400	(ψ100,001,000)	(ψ100,140,022)	(ψ100,001,000)
16	Utility Rate Base	\$1,303,921,994	\$1,303,921,994	\$1,214,411,941	\$1,214,411,941	\$1,214,411,941	\$1,214,411,941
17	Deemed Equity Portion of Rate Base	\$521,568,798	\$521,568,798	\$ -	\$ -	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	3.79%	9.13%	0.00%	0.00%	0.00%	0.00%
19	Target Return - Equity on Rate Base	9.13%	9.13%	0.00%	0.00%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	-5.34%	0.00%	0.00%	0.00%	0.00%	0.00%
21	Indicated Rate of Return	3.51%	5.64%	2.82%	0.00%	-12.61%	0.00%
22	Requested Rate of Return on Rate Base	5.64%	5.64%	0.00%	0.00%	0.00%	0.00%
23	Deficiency/Sufficiency in Rate of Return	-2.14%	0.00%	2.82%	0.00%	-12.61%	0.00%
24	Target Return on Equity	\$47,619,231	\$47,619,231	\$ -	\$ -	\$ -	\$ -
25 26	Revenue Deficiency/(Sufficiency) Gross Revenue	\$27,853,174 \$37,895,475 ⁽¹⁾	\$1	(\$34,247,465) (\$46,595,191) (1)	\$ -	\$153,140,322 \$208,354,179 ⁽¹⁾	\$ -

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)

Deficiency/(Sufficiency)

Exhibit 6 Tab 1

Schedule 1

Revenue Requirement Workform Attachment B ORIGINAL Page 9 of 17 (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application		Per Board Decision
1 2 3 5	OM&A Expenses Amortization/Depreciation Property Taxes Income Taxes (Grossed up) Other Expenses	\$93,069,398 \$56,860,206 \$3,210,718 \$5,210,712	\$93,069,398 \$56,860,206 \$3,210,718 \$5,210,712	\$93,069,398 \$56,860,206 \$3,210,718 \$5,210,712
7	Return Deemed Interest Expense Return on Deemed Equity	\$25,968,910 \$47,619,231	\$ - \$ -	\$ - \$ -
8	Service Revenue Requirement (before Revenues)	\$231,939,175	\$158,351,033	\$158,351,033
9 10	Revenue Offsets Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)	\$11,012,904 \$220,926,271	\$ - \$158,351,033	\$ - \$158,351,033
11 12	Distribution revenue Other revenue	\$220,926,272 \$11,012,904	\$ - \$ -	\$ - \$ -
13	Total revenue	\$231,939,176	\$ -	<u> </u>
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	\$1_	(\$158,351,033)	(1) <u>(\$158,351,033)</u> (1)

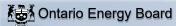
Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application		Δ% ⁽²⁾	Per Board Decision	Δ% (2
Service Revenue Requirement Grossed-Up Revenue	\$231,939,175	\$158,351,033	(\$0)	\$158,351,033	(\$1
Deficiency/(Sufficiency)	\$37,895,475	(\$46,595,191)	(\$2)	\$208,354,179	(\$1
Base Revenue Requirement (to be	*****	4450.054.000	(0.0)	4450.054.000	
recovered from Distribution Rates) Revenue Deficiency/(Sufficiency) Associated with Base Revenue	\$220,926,271	\$158,351,033	(\$0)	\$158,351,033	(\$1
Requirement	\$33,148,886	\$ -	(\$1)	\$ -	(\$1

Notes

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:

Initia	App	lication

	Customer Class				
ı	Input the name of each customer class.				
Re	sidential				
	< 50 kW				
	5 > 50 to 1,499 kW				
	s > 1,500 to 4,999 kW age Use				
	eet Lighting				
	ntinel Lighting				
_	metered Scattered Load				
Sta	indby Power				

Initial Application					
Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ Annual			
319,386 25,554 3,085 68 11 63,725 55 3,321 3	2,273,964,000 699,456,000 2,825,111,000 682,362,000 572,889,000 21,225,000 47,000 13,130,000	6,818,165 1,517,223 1,050,767 58,863 132 7,440			

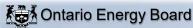
kWh Annual	kW/kVA ⁽¹⁾ Annual

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 - - - -

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: Initial Application

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)	%
Residential GS < 50 kW GS > 50 to 1,499 kW GS > 1,500 to 4,999 kW CS Large Use Street 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%	* * * * * * * * * *	127,868,556 23,161,106 57,675,248 12,183,317 9,390,983 1,048,655 10,539 586,520 14,253	55.13% 9.99% 24.87% 5.25% 4.05% 0.45% 0.00% 0.25% 0.01%
Total	\$	200,544,060	100.00%	\$	231,939,176	100.00%
			Service Revenue Requirement (from Sheet 9)	\$	231,939,175.07	

- (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	\$ 116,243,729	\$ 124,887,652	\$	124,905,477	\$ 8,083,378
GS < 50 kW	\$ 24,739,656	\$ 26,754,605	\$	26,720,616	\$ 984,658
GS > 50 to 1,499 kW	\$ 44,608,681	\$ 47,962,467	\$	47,962,727	\$ 1,392,672
GS > 1,500 to 4,999 kW	\$ 11,138,995	\$ 11,621,209	\$	11,621,263	\$ 272,310
Large Use	\$ 7,552,384	\$ 7,837,572	\$	7,837,541	\$ 191,559
Street Lighting	\$ 1,106,660	\$ 1,206,602	\$	1,206,068	\$ 51,781
Sentinel Lighting	\$ 4,955	\$ 5,415	\$	5,949	\$ 882
Unmetered Scattered Load	\$ 567,811	\$ 628,994	\$	628,486	\$ 35,230
Standby Power	\$ 20,126	\$ 21,756	\$	21,756	\$ 434
1					
2					
3					
1					
5					
6					
7					
3					
9					
Total	\$ 205,982,998	\$ 220,926,272	\$	220,909,883	\$ 11,012,904

⁽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,

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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: 2016	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	%	%	%	%
Residential	104.29%	103.99%	104.00%	85 - 115
GS < 50 kW	118.23%	119.77%	119.62%	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%	97.62%	97.62%	80 - 120
Large Use	85.36%	85.50%	85.50%	85 - 115
Street Lighting	80.00%	120.00%	119.95%	80 - 120
Sentinel Lighting	76.00%	59.75%	64.81%	80 - 120
Unmetered Scattered Load	118.72%	113.25%	113.16%	80 - 120
Standby Power	21.03%	155.69%	155.69%	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.

⁽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 P	eriod	-
	2021	2022	2023	
Residential	104.00%	104.00%	104.00%	85 - 115
GS < 50 kW	119.62%	119.62%	119.62%	80 - 120
GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120
GS > 1,500 to 4,999 kW	97.62%	97.62%	97.62%	80 - 120
Large Use	85.50%	85.50%	85.50%	85 - 115
Street Lighting	119.95%	119.95%	119.95%	80 - 120
Sentinel Lighting	64.81%	64.81%	64.81%	80 - 120
Unmetered Scattered Load	113.16%	113.16%	113.16%	80 - 120
Standby Power	155.69%	155.69%	155.69%	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		319,386							
kWh		2,273,964,000							
Proposed Residential Class Specific Revenue	\$	124,905,476.88							
Requirement ¹									

Residential Base Rates on Current Tariff							
Monthly Fixed Charge (\$)	\$	32.59					
Distribution Volumetric Rate (\$/kWh)	\$	-					

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	32.59	319,386	\$ 124,905,476.88	100.00%
Variable	0	2,273,964,000	\$ -	0.00%
TOTAL	-	-	\$ 124,905,476.88	-

C Calculating Test Year Base Rates

Transition Years ²	0

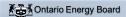
	Test Year Revenue @ Current F/V Split		Test Year Base Rates @ Current F/V Split		Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	124,905,476.88	32.59	\$	124,905,476.88
Variable	\$	-	0	\$	-
TOTAL	\$	124,905,476.88	-	\$	124,905,476.88

				Revenue
		Revenue @ new	Final Adjusted	Reconciliation @
	New F/V Split	F/V Split	Base Rates	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\t/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)



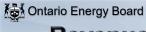
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Rate Design and Revenue Reconciliation

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:			Initial Application		Cla	ss Allocated Rever	iues					Distribution 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 Se	No. of decimals	Volu	metric Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues les Transformer Ownership Allowance
Residential GS < 50 kW GS > 50 to 1,499 kW GS > 1,500 to 4,999 kW Large Use Street Lighting Sentinet Lighting Unmetered Scattered Load Standby Power	KWh KWh KW KW KW KW KW KW KW	319,386 25,554 3,085 68 81 11 63,725 55 55 3,321 3 - - - - - -	2.273.964.000 699.456.000 699.456.000 682.362.000 572.889.000 21.225.000 47.000 13,130.000	6,818,165 1,517,223 1,050,767 58,863 132 - 7,440 - - - - - - - - -	\$ 124,905,477 \$ 26,720,616 \$ 47,962,727 \$ 11,621,623 \$ 7,837,541 \$ 1,206,098 \$ 5,549 \$ 628,496 \$ 21,796	\$ 124,905,477 \$ 6,787,037 \$ 7,960,853 \$ 3,570,401 \$ 2,086,454 \$ 779,994 \$ 3,076 \$ 244,892 \$ 6,164	\$ 19,933,59 \$ 40,001,874 \$ 8,050,862 \$ 5,751,075 \$ 426,074 \$ 33,333,594 \$ 15,593	100.00% 25.40% 16.60% 30.72% 64.67% 51.70% 38.97% 28.33%	0.00% 74.60% 83.40% 69.28% 73.38% 48.30% 61.03% 71.67%	\$ 343,181 \$ 397,034 \$ 315,727	\$32, \$22, \$215, \$4,375, \$15,806, \$1, \$4, \$6, \$171,	13 04 19 17 02 66	\$0.0285 \$5.9173 \$5.5680 \$5.7737 \$7.2384 \$21.7657 \$0.0292	RWH 4 RWH RW	**************************************	\$ \$19,934,496,0000 \$ \$19,934,496,0000 \$ \$40,345,127,7545 \$ 8,447,397,6840 \$ \$ 6,066,813,4279 \$ 426,073,9392 \$ \$ 2,873,0724 \$ 383,396,0000 \$ 15,592,7520 \$ \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	######################################
							1	Total Transformer Ow	nership Allowance	\$ 1,055,942					Total Distribution R	tevenues	**********
es:													Rates recover re	venue requirement	Base Revenue Req	uirement	***********
Transformer Ownership Allowance is	entered on a positive	amount and only fo	r those classes to wh	sich it applier											Difference % Difference		-\$ 16,388 -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.

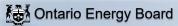
(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

Summary of Proposed Changes

		Cost of	Capital	Rate Base and Capital Expenditures			Ope	erating Expense	es	Revenue Requirement			
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	\$ 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

⁽²⁾ Short description of change, issue, etc.

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Revenue Requirement Workform (RRWF) for 2020 Filers



Version 9.00

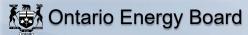
Utility Name	Hydro Ottawa Limited	
Service Territory		
Assigned EB Number	EB-2019-0261	
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs	
Phone Number	613-738-5499 ext 7472	
Email Address	RegulatoryAffairs@HydroOttawa.com	
Test Year	2023	
Bridge Year		
Last Rebasing Year	2016	

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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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

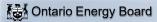
5. Utility Income 12. Residential Rate Design

6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

- (1) Pale green cells 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.



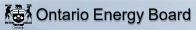
Data Input (1)

		Initial Application	(2)			(6)	Per Board Decision	_
1	Rate Base							
•	Gross Fixed Assets (average) Accumulated Depreciation (average)	\$1,672,507,871 (\$417,844,547)	(5)		672,507,871 417,844,547)		\$1,672,507,871 (\$417,844,547))
	Allowance for Working Capital: Controllable Expenses Cost of Power	\$98,696,747 \$1,167,387,072		\$ \$ 1	98,696,747 167,387,072		\$98,696,747 \$1,167,387,072	
	Working Capital Rate (%)	7.50%	(9)	Ψ1,	107,307,072	(9)	ψ1,107,307,072	(9)
2	Utility Income Operating Revenues: Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates	\$188,659,471 \$232,378,120						
	Other Revenue: 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						
	Total Revenue Offsets	\$11,667,243	(7)					
	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Other expenses	\$95,405,440 \$59,141,744 \$3,291,307		\$ \$ \$	95,405,440 59,141,744 3,291,307		\$95,405,440 \$59,141,744 \$3,291,307	
3	Taxes/PILs							
	Taxable Income:	(\$25,626,668)	(3)					
	Adjustments required to arrive at taxable income Utility Income Taxes and Rates:							
	Income taxes (not grossed up)	\$6,442,789						
	Income taxes (grossed up) Federal tax (%)	\$8,765,699 15.00%						
	Provincial tax (%)	11.50% (\$85,000)						
4	Capitalization/Cost of Capital	(400,000)						
	Capital Structure:							
	Long-term debt Capitalization Ratio (%) Short-term debt Capitalization Ratio (%)	56.0% 4.0%	(8)			(8)		(8)
	Common Equity Capitalization Ratio (%)	40.0%						
	Prefered Shares Capitalization Ratio (%)	100.0%						
	Cost of Capital							
	Long-term debt Cost Rate (%)	3.40%						
	Short-term debt Cost Rate (%) Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	2.75% 9.31%						

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 General 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 (%)
- 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

Rate Base

	Nato Baco					
Line No.	Particulars	Initial Application				Per Board Decision
1	Gross Fixed Assets (average) (2)	\$1,672,507,871	\$ -	\$1,672,507,871	\$ -	\$1,672,507,871
2	Accumulated Depreciation (average) (2)	(\$417,844,547)	\$ -	(\$417,844,547)	\$ -	(\$417,844,547)
3	Net Fixed Assets (average) (2)	\$1,254,663,324	\$ -	\$1,254,663,324	\$ -	\$1,254,663,324
4	Allowance for Working Capital (1)	\$94,956,286	(\$94,956,286)	\$ -	<u> </u>	\$ -
5	Total Rate Base	\$1,349,619,610	(\$94,956,286)	\$1,254,663,324	\$ -	\$1,254,663,324

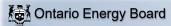
(1) Allowance for Working Capital - Derivation

6 7 8	Controllable Expenses Cost of Power Working Capital Base		\$98,696,747 \$1,167,387,072 \$1,266,083,819	\$ - \$ - \$ -	\$98,696,74 \$1,167,387,07 \$1,266,083,819	2 \$-	, , ,
9	Working Capital Rate %	(1)	7.50%	-7.50%	0.00	% 0.00%	0.00%
10	Working Capital Allowance	=	\$94,956,286	(\$94,956,286)	*	- \$-	\$ -

Notes

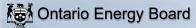
Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

(2) Average of opening and closing balances for the year.



Utility Income

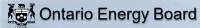
Line No.	Particulars	Initial Application				Per Board Decision	
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$232,378,120	(\$232,378,120)	\$ -	\$ -	\$ -	
2	Other Revenue (\$11,667,243	(\$11,667,243)	\$ -	\$ -	\$ -	
3	Total Operating Revenues	\$244,045,363	(\$244,045,363)	<u> </u>	<u> </u>	\$-	
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 \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$95,405,440 \$59,141,744 \$3,291,307 \$-	\$ - \$ - \$ - \$ - \$ -	\$95,405,440 \$59,141,744 \$3,291,307 \$-	
9	Subtotal (lines 4 to 8)	\$157,838,491	\$ -	\$157,838,491	\$ -	\$157,838,491	
10	Deemed Interest Expense	\$27,181,339	(\$27,181,339)	\$ -	\$ -	\$-	
11	Total Expenses (lines 9 to 10)	\$185,019,830	(\$27,181,339)	\$157,838,491	\$ -	\$157,838,491	
12	Utility income before income taxes	\$59,025,534	(\$216,864,024)	(\$157,838,491)	\$ -	(\$157,838,491)	
13	Income taxes (grossed-up)	\$8,765,699	\$ -	\$8,765,699	\$ -	\$8,765,699	
14	Utility net income	\$50,259,834	(\$216,864,024)	(\$166,604,190)	<u> \$ -</u>	(\$166,604,190)	
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		\$ - \$ - \$ - \$ -		\$ - \$ - \$ - \$ -	
	Total Revenue Offsets	\$11,667,243	<u> </u>	<u> </u>	<u> </u>	<u> </u>	



Taxes/PILs

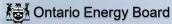
Line No.	Particulars	Application		Per Board Decision
	<u>Determination of Taxable Income</u>			
1	Utility net income before taxes	\$50,259,834	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$25,626,668)	\$ -	\$ -
3	Taxable income	\$24,633,166	\$ -	\$ -
	Calculation of Utility income Taxes			
4	Income taxes	\$6,442,789	\$6,442,789	\$6,442,789
6	Total taxes	\$6,442,789	\$6,442,789	\$6,442,789
7	Gross-up of Income Taxes	\$2,322,910	\$2,322,910	\$2,322,910
8	Grossed-up Income Taxes	\$8,765,699	\$8,765,699	\$8,765,699
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$8,765,699	\$8,765,699	\$8,765,699
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	Capitali	zation Ratio	Cost Rate	Return
		Initial A	Application		
		(%)	(\$)	(%)	(\$)
1 2 3	Debt Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$755,786,982 \$53,984,784 \$809,771,766	3.40% 2.75% 3.36%	\$25,696,757 \$1,484,582 \$27,181,339
J		00.0070	ψουθ,771,700	3.30 70	Ψ21,101,009
4 5 6	Equity Common Equity Preferred Shares Total Equity	40.00% 0.00% 40.00%	\$539,847,844 \$- \$539,847,844	9.31% 0.00% 9.31%	\$50,259,834 \$ - \$50,259,834
7	Total	100.00%	\$1,349,619,610	5.74%	\$77,441,173
		(%)	(\$)	(%)	(\$)
1 2 3	Long-term Debt Short-term Debt Total Debt	0.00% 0.00% 0.00%	\$ - \$ - \$ -	0.00% 0.00% 0.00%	\$ - \$ - \$ -
4 5 6	Equity Common Equity Preferred Shares Total Equity	0.00% 0.00% 0.00%	\$ - \$ - \$ -	0.00% 0.00% 0.00%	\$ - \$ - \$ -
7	Total	0.00%	\$1,254,663,324	0.00%	<u> </u>
		Per Boa	ard Decision		
		(%)	(\$)	(%)	(\$)
8 9 10	Debt Long-term Debt Short-term Debt Total Debt	0.00% 0.00% 0.00%	\$ - \$ - \$ -	3.40% 2.75% 0.00%	\$ - \$ - \$ -
11 12 13	Equity Common Equity Preferred Shares Total Equity	0.00% 0.00% 0.00%	\$ - \$ - \$ -	9.31% 0.00% 0.00%	\$ - \$ - \$ -
14	Total	0.00%	\$1,254,663,324	0.00%	\$ -
<u>Notes</u>					

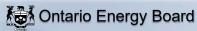


Revenue Deficiency/Sufficiency

		Initial Appl	ication			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	Revenue Deficiency from Below Distribution Revenue	\$188.659.471	\$47,439,387 \$184,938,733	\$188.659.471	(\$40,176,174) \$272,554,294	\$ -	\$214,746,246 (\$214,746,246)
3	Other Operating Revenue Offsets - net	\$11,667,243	\$11,667,243	\$ -	\$ -	\$ -	\$-
4	Total Revenue	\$200,326,714	\$244,045,363	\$188,659,471	\$232,378,120	\$ -	\$ -
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	\$157,838,491 \$ - \$157,838,491	\$157,838,491 \$ - \$157,838,491	\$157,838,491 \$ - \$157,838,491	\$157,838,491 \$ - \$157,838,491
9	Utility Income Before Income Taxes	\$15,306,885	\$59,025,534	\$30,820,980	\$74,539,629	(\$157,838,491)	(\$157,838,491)
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	\$ -	\$ -
11	Taxable Income	(\$10,319,783)	\$33,398,866	\$5,194,312	\$48,912,961	(\$157,838,491)	(\$157,838,491)
12 13	Income Tax Rate	26.50% \$ -	26.50% \$8,850,699	26.50% \$1,376,493	26.50% \$12,961,935	26.50% \$ -	26.50% \$ -
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) \$29,529,488	(\$85,000) (\$166,604,190)	\$ - (\$157,838,491)	\$ - (\$166,604,190)
16	Utility Rate Base	\$1,349,619,610	\$1,349,619,610	\$1,254,663,324	\$1,254,663,324	\$1,254,663,324	\$1,254,663,324
17	Deemed Equity Portion of Rate Base	\$539,847,844	\$539,847,844	\$ -	\$ -	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	2.85%	9.31%	0.00%	0.00%	0.00%	0.00%
19	Target Return - Equity on Rate Base	9.31%	9.31%	0.00%	0.00%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	-6.46%	0.00%	0.00%	0.00%	0.00%	0.00%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	3.15% 5.74%	5.74% 5.74%	2.35% 0.00%	0.00% 0.00%	-12.58% 0.00%	0.00% 0.00%
23	Deficiency/Sufficiency in Rate of Return	-2.58%	0.00%	2.35%	0.00%	-12.58%	0.00%
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)	\$ - (\$29,529,488) (\$40,176,174) (1)	\$ - \$ -	\$ - \$157,838,491 \$214,746,246 (1)	\$ - \$ -

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Revenue Requirement

Line No.	Particulars	Application		Per Board Decision
1 2	OM&A Expenses Amortization/Depreciation	\$95,405,440 \$59,141,744	\$95,405,440 \$59,141,744	\$95,405,440 \$59,141,744
3 5 6	Property Taxes Income Taxes (Grossed up) Other Expenses	\$3,291,307 \$8,765,699 \$ -	\$3,291,307 \$8,765,699	\$3,291,307 \$8,765,699
7	Return Deemed Interest Expense Return on Deemed Equity	\$27,181,339 \$50,259,834	\$ - \$ -	\$ - \$ -
8	Service Revenue Requirement (before Revenues)	\$244,045,363	\$166,604,190	\$166,604,190
9 10	Revenue Offsets Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)	\$11,667,243 \$232,378,120	\$- \$166,604,190	\$ - \$166,604,190
11 12	Distribution revenue Other revenue	\$232,378,120 \$11,667,243	\$ - \$ -	\$ - \$ -
13	Total revenue	\$244,045,363	<u> </u>	<u> </u>
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	(\$0)	(1) <u>(\$166,604,190)</u>	(\$166,604,190)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

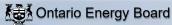
	Application		Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$244,045,363	\$166,604,190	(\$0)	\$166,604,190	(\$1)
Deficiency/(Sufficiency)	\$47,439,387	(\$40,176,174)	(\$2)	\$214,746,246	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$232,378,120	\$166,604,190	(\$0)	\$166,604,190	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$43,718,649	\$ -	(\$1)	\$ -	(\$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-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:

	Customer Class
	Input the name of each customer class.
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	
19	
20	

Initial Application

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 2,831,399,000 682,571,000 572,033,000 47,000 12,663,000		6,821,528 1,517,607 1,049,467 56,618 132 7,440	

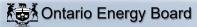
Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ Annual

P	er Board Decision	
Customer / Connections	kWh	kW/kVA (1)
Test Year average or mid-year	Annual	Annual

Total 7,116,619,000 9,452,792 - - - - -

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: Initial Application

A) Allocated Costs

Name of Customer Class (3) From Sheet 10, Load Forecast	s Allocated from vious Study ⁽¹⁾	%	_	Allocated Class enue Requirement	%
Trom Sheet To. Load Forecast				(7A)	
Residential	\$ 107,281,788	53.50%	\$	134,542,722	55.13%
GS < 50 kW	\$ 20,646,221	10.30%	\$	24,370,012	9.99%
GS > 50 to 1,499 kW	\$ 48,750,762	24.31%	\$	60,685,637	24.87%
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	12,819,232	5.25%
Large Use	\$ 8,063,832	4.02%	\$	9,881,150	4.05%
Street Lighting	\$ 1,811,439	0.90%	\$	1,103,390	0.45%
Sentinel Lighting	\$ 6,568	0.00%	\$	11,089	0.00%
Unmetered Scattered Load	\$ 547,549	0.27%	\$	617,134	0.25%
Standby Power	\$ 70,655	0.04%	\$	14,997	0.01%
Total	\$ 200,544,060	100.00%	\$	244,045,363	100.00%
		Service Revenue Requirement (from Sheet 9)	\$	244,045,363.33	

⁽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.

B) Calculated Class Revenues

Name of Customer Class		Load Forecast (LF) X current approved rates		LF X current approved rates X (1+d)		LF X Proposed Rates		Miscellaneous Revenues	
		(7B)		(7C)		(7D)		(7E)	
1 Residential	\$	126,047,430	\$	131,376,509	\$	131,384,818	\$	8,563,657	
2 GS < 50 kW	\$	26,718,641	\$	28,110,263	\$	28,120,339	\$	1,043,162	
GS > 50 to 1,499 kW	\$	48,232,911	\$	50,459,782	\$	50,459,724	\$	1,475,419	
4 GS > 1,500 to 4,999 kW	\$	12,020,436	\$	12,226,759	\$	12,226,820	\$	288,490	
Large Use	\$	8,145,762	\$	8,245,839	\$	8,245,884	\$	202,941	
Street Lighting	\$	1,201,079	\$	1,268,739	\$	1,268,175	\$	54,857	
Sentinel Lighting	\$	5,949	\$	6,253	\$	6,815	\$	934	
Unmetered Scattered Load	\$	614,849	\$	661,085	\$	661,040	\$	37,324	
Standby Power	\$	21,756	\$	22,890	\$	22,891	\$	460	
o ,									
1									
2									
3									
1									
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6									
7									
3									
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′	_								
Total	\$	223,008,813	\$	232,378,120	\$	232,396,505	\$	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,

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	•	•	0/
	%	%	%	%
Residential	104.29%	104.01%	104.02%	85 - 115
GS < 50 kW	118.23%	119.63%	119.67%	80 - 120
GS > 50 to 1,499 kW	86.34%	85.58%	85.58%	80 - 120
GS > 1,500 to 4,999 kW	98.24%	97.63%	97.63%	80 - 120
Large Use	85.36%	85.50%	85.50%	85 - 115
Street Lighting	80.00%	119.96%	119.91%	80 - 120
Sentinel Lighting	76.00%	64.82%	69.88%	80 - 120
Unmetered Scattered Load	118.72%	113.17%	113.16%	80 - 120
Standby Power	21.03%	155.70%	155.70%	80 - 120
2				
3				
5				
6				
1				
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.

⁽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".

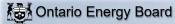
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

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(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		
1 Residential	104.02%	104.02%	104.02%	85 - 115	
2 GS < 50 kW	119.67%	119.67%	119.67%	80 - 120	
3 GS > 50 to 1,499 kW	85.58%	85.58%	85.58%	80 - 120	
4 GS > 1,500 to 4,999 kW	97.63%	97.63%	97.63%	80 - 120	
5 Large Use	85.50%	85.50%	85.50%	85 - 115	
6 Street Lighting	119.91%	119.91%	119.91%	80 - 120	
7 Sentinel Lighting	69.88%	69.88%	69.88%	80 - 120	
8 Unmetered Scattered Load	113.16%	113.16%	113.16%	80 - 120	
9 Standby Power 0	155.70%	155.70%	155.70%	80 - 120	
1					
2					
3					
4					
5					
6					
7					
8					
9					
0					

(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'.



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	acidant	ial Clace				
Customers	esideiit	322.306				
kWh		2,299,513,000				
Proposed Residential Class Specific Revenue Requirement ¹	\$	131,384,817.84				
Residential Base Rates on Current Tariff						
Monthly Fixed Charge (\$)	\$	34.28				

Residential Base Rates on Current Tariff				
Monthly Fixed Charge (\$)	\$	34.28		
Distribution Volumetric Rate (\$/kWh)	\$	-		

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	34.28	322,306	\$ 132,583,796.16	100.00%
Variable	0	2,299,513,000	\$ -	0.00%
TOTAL	-	-	\$ 132,583,796.16	-

C Calculating Test Year Base Rates

I ransition Years	ŭ		
		1	
	Test Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - To

	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	\$	131,384,817.84	33.97	\$	131,384,817.84
Variable	\$	-	0	\$	-
TOTAL	\$	131,384,817.84	-	\$	131,384,817.84

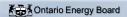
	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$ -	-	

Checks ³	
Change in Fixed Rate	
Difference Between Revenues @ Proposed Rates	
and Class Specific Revenue Requirement	

Notes:

- 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/year, put "1" in cell D40.
- 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

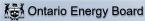
Rate Design and Revenue Reconciliation

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:			Initial Application		Cla	ss Allocated Rever	iues					Dist	ribution Rates			Revenue Reconciliation	on
	Customer and Lo	oad Forecast				1. Cost Allocation sidential 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 Serv Rate	No. of decimals	Volu Rate	metric Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential 2 GSL-50 hW 3 GS-50 hW 4 GS	RWTh RWTH RWT RW RW RW RW RW RW RW	322,306 25,704 3,049 68 111 64,645 53,321 	2,299,513,000 697,989,000 2,831,390,000 682,571,000 772,033,000 20,413,000 12,663,000	6,821,528 1,517,607 1,049,467 56,618 132 7,440	\$ 131,384,818 \$ 28,120,339 \$ 50,459,724 \$ 12,226,820 \$ 8,245,884 \$ 1,268,175 \$ 6,815 \$ 661,040 \$ 22,891	\$ 131,384,818 \$ 7,181,935 \$ 8,231,242 \$ 3,631,684 \$ 2,112,088 \$ 837,801 \$ 3,524 \$ 263,404 \$ 6,485	\$ 20,938,405 \$ 42,228,481 \$ 8,595,137 \$ 6,133,796 \$ 430,374 \$ 3,290 \$ 397,636 \$ 16,406	100.00% 12.54% 10.35% 10.370% 26.61% 60.06% 51.72% 38.85% 28.33%	0.00% 74.46% 83.69% 70.30% 74.39% 33.94% 48.28% 60.15%	\$ 343,271 \$ 397,138 \$ 315,809	\$33.97 \$23.28 \$224.97 \$4,450.59 \$1.000.67 \$1.08 \$5.34 \$6.61 \$180.13		\$0.0300 \$6.2408 \$5.9253 \$6.1456 \$7.6014 \$24.9250 \$0.0314	RAWh 4 RAWH RAW	######################################	\$20,039,670,0000 \$42,677,791,940,747 \$ 0,942,276,77,791,942,77 \$ 0,942,674,945,942,776,952,78 \$ 0,449,604,362,76,952,78 \$ 397,618,2000 \$ 18,405,9440 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	######################################
							т	otal Transformer Ow	nership Allowance	\$ 1,056,218					Total Distribution R		***********
Notes: 1 Transformer Ownership Allowance is									Base Revenue Requipments Difference % Difference	uirement	\$ 18,385.21 0.008%						

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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Revenue Requirement Workform (RRWF) for 2020 Filers

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.)

Summary of Proposed Changes

		Cost of				Operating Expenses			Revenue Requirement				
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	\$ 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	\$ 47,439,38

⁽²⁾ Short description of change, issue, etc.

Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2020 Filers



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 RegulatoryAffairs@HydroOttawa.com

Test Year 2024

Bridge Year

Last Rebasing Year 2016

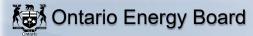
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion 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.

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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

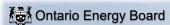
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

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.



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Data Input (1)

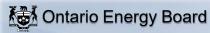
		Initial Application	(2)			(6)	Per Board Decision	_
1	Rate Base Gross Fixed Assets (average) Accumulated Depreciation (average) Allowance for Working Capital:	\$1,750,450,428 (\$476,047,244)	(5)		750,450,428 476,047,244)		\$1,750,450,428 (\$476,047,244))
	Controllable Expenses Cost of Power Working Capital Rate (%)	\$101,174,035 \$1,264,188,174 7.50%	(9)		101,174,035 264,188,174	(9)	\$101,174,035 \$1,264,188,174	(9)
2	Utility Income	7.0070						
	Operating Revenues: Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$189,644,373 \$241,253,766						
	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108						
	Total Revenue Offsets	\$12,151,392	(7)					
	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Other expenses	\$97,800,117 \$60,711,328 \$3,373,918		\$ \$	97,800,117 60,711,328 3,373,918		\$97,800,117 \$60,711,328 \$3,373,918	
3	Taxes/PILs Taxable Income:							
	Adjustments required to arrive at taxable income Utility Income Taxes and Rates:	(\$19,163,272)	(3)					
	Income taxes (not grossed up) Income taxes (grossed up)	\$8,569,789						
	Federal tax (%) Provincial tax (%) Income Tax Credits	\$11,659,577 15.00% 11.50% (\$85,000)						
4	Capitalization/Cost of Capital Capital Structure:							
	Long-term debt Capitalization Ratio (%) Short-term debt Capitalization Ratio (%) Common Equity Capitalization Ratio (%) Prefered Shares Capitalization Ratio (%)	56.0% 4.0% 40.0%	(8)			(8)		(8)
		100.0%						
	Cost of Capital Long-term debt Cost Rate (%) Short-term debt Cost Rate (%) Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	3.44% 2.75% 9.41%						

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

R	at	te	В	а	s	e

Line No.	Particulars	Initial Application				Per Board Decision
1	Gross Fixed Assets (average)	²⁾ \$1,750,450,428	\$ -	\$1,750,450,428	\$ -	\$1,750,450,428
2	Accumulated Depreciation (average) (2	(\$476,047,244)	\$ -	(\$476,047,244)	\$ -	(\$476,047,244)
3	Net Fixed Assets (average) (2	\$1,274,403,184	\$ -	\$1,274,403,184	\$ -	\$1,274,403,184
4	Allowance for Working Capital (1	\$102,402,166	#########	<u> </u>	<u> </u>	\$ -
5	Total Rate Base	\$1,376,805,350	#########	\$1,274,403,184	\$ -	\$1,274,403,184

(1) Allowance for Working Capital - Derivation

Controllable Expenses Cost of Power Working Capital Base		\$101,174,035 \$1,264,188,174 \$1,365,362,209	\$ - \$ - \$ -	\$101,174,035 \$1,264,188,174 \$1,365,362,209	\$	-	\$101,174,035 \$1,264,188,174 \$1,365,362,209
Working Capital Rate %	(1)	7.50%	-7.50%	0.00%	0.00	%	0.00%
Working Capital Allowance		\$102,402,166	##########	\$ -	\$	=	\$

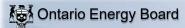
Notes

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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				Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$241,253,766	(\$241,253,766)	\$ -	\$ -	\$ -
2	Other Revenue	(1) \$12,151,391	(\$12,151,391)	\$ -	\$ -	<u> </u>
3	Total Operating Revenues	\$253,405,157	(\$253,405,157)	\$ -	\$ -	\$ -
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 \$- \$-	\$ - \$ - \$ - \$ - \$ -	\$97,800,117 \$60,711,328 \$3,373,918 \$-	\$ - \$ - \$ - \$ - \$ -	\$97,800,117 \$60,711,328 \$3,373,918 \$ -
9	Subtotal (lines 4 to 8)	\$161,885,363	\$ -	\$161,885,363	\$ -	\$161,885,363
10	Deemed Interest Expense	\$28,037,264	(\$28,037,264)	\$ -	\$ -	\$ -
11	Total Expenses (lines 9 to 10)	\$189,922,628	(\$28,037,264)	\$161,885,363	\$ -	\$161,885,363
12	Utility income before income taxes	\$63,482,530	(\$225,367,893)	(\$161,885,363)	<u> </u>	(\$161,885,363)
13	Income taxes (grossed-up)	\$11,659,577	\$ -	\$11,659,577	\$ -	\$11,659,577
14	Utility net income	\$51,822,953	(\$225,367,893)	(\$173,544,940)	<u> </u>	(\$173,544,940)
<u>Notes</u>	Other Revenues / Reve	nue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108		\$ - \$ - \$ - \$ -		\$ - \$ - \$ - \$ -
	Total Revenue Offsets	\$12,151,391		<u> </u>	<u> </u>	<u> </u>

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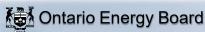
Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application		Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$51,822,953	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$19,163,272)	\$ -	\$ -
3	Taxable income	\$32,659,681	\$ -	\$ -
	Calculation of Utility income Taxes			
4	Income taxes	\$8,569,789	\$8,569,789	\$8,569,789
6	Total taxes	\$8,569,789	\$8,569,789	\$8,569,789
7	Gross-up of Income Taxes	\$3,089,788	\$3,089,788	\$3,089,788
8	Grossed-up Income Taxes	\$11,659,577	\$11,659,577	\$11,659,577
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$11,659,577	\$11,659,577	\$11,659,577
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

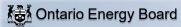
Tab 1



Revenue Requirement Workform Attachment D ORIGINAL Page 7 of 17

Capitalization/Cost of Capital

Line No.	Particulars	Capitali	ization Ratio	Cost Rate	Return
		Initial A	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
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	0.00%	\$ -	0.00%	\$ -
2	Short-term Debt	0.00%	\$ -	0.00%	\$-
3	Total Debt	0.00%	<u> </u>	0.00%	<u> </u>
	Equity				
4	Common Equity	0.00%	\$ -	0.00%	\$ -
5	Preferred Shares	0.00%	<u> </u>	0.00%	<u> </u>
6	Total Equity	0.00%	<u> \$ -</u>	0.00%	<u> </u>
7	Total	0.00%	\$1,274,403,184	0.00%	\$ -
		Per Boa	ard Decision		
		(%)	(\$)	(%)	(\$)
•	Debt	0.000/	•	0.440/	•
8 9	Long-term Debt Short-term Debt	0.00% 0.00%	\$ - \$ -	3.44% 2.75%	\$ - \$ -
10	Total Debt	0.00%	\$-	0.00%	\$ -
	Equity				
11	Common Equity	0.00%	\$ -	9.41%	\$ -
12 13	Preferred Shares Total Equity	0.00%	<u> </u>	0.00%	<u> </u>
			·		
14	Total	0.00%	\$1,274,403,184	0.00%	<u> </u>
Notes					



Revenue Deficiency/Sufficiency

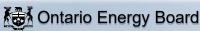
		Initial Appl	ication			Per Board D	Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
	Davanua Dafisianay from Balayy		\$54,237,845		(\$34,783,863)		\$220 252 405
1 2	Revenue Deficiency from Below Distribution Revenue	\$189.644.373	\$187,015,921	\$189.644.373	\$276,037,629	\$ -	\$220,252,195 (\$220,252,195)
3	Other Operating Revenue	\$12,151,391	\$12,151,391	\$ 103,044,373	\$ -	\$ -	(\$220,232,193)
	Offsets - net						·
4	Total Revenue	\$201,795,765	\$253,405,157	\$189,644,373	\$241,253,766	\$ -	\$ -
5	Operating Expenses	\$161,885,363	\$161,885,363	\$161,885,363	\$161,885,363	\$161,885,363	\$161,885,363
6	Deemed Interest Expense	\$28,037,264	\$28,037,264	\$ -	\$ -	\$ -	\$ -
8	Total Cost and Expenses	\$189,922,628	\$189,922,628	\$161,885,363	\$161,885,363	\$161,885,363	\$161,885,363
9	Utility Income Before Income Taxes	\$11,873,137	\$63,482,530	\$27,759,010	\$79,368,403	(\$161,885,363)	(\$161,885,363)
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	\$ -	\$ -
11	Taxable Income	(\$7,290,135)	\$44,319,258	\$8,595,738	\$60,205,131	(\$161,885,363)	(\$161,885,363)
12	Income Tax Rate	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
13		\$ -	\$11,744,603	\$2,277,870	\$15,954,360	\$ -	\$ -
	Income Tax on Taxable Income	(005,000)	(005,000)	(005,000)	(405,000)	_	
14 15	Income Tax Credits Utility Net Income	(\$85,000) \$11,958,137	(\$85,000) \$51,822,953	(\$85,000) \$25,566,139	(\$85,000) (\$173,544,940)	(\$161.885.363)	\$ - (\$173.544.940)
	,	ψ11,000,101	\$61,622,666	\$20,000,100	(\$110,011,010)	(\$101,000,000)	(\$110,011,010)
16	Utility Rate Base	\$1,376,805,350	\$1,376,805,350	\$1,274,403,184	\$1,274,403,184	\$1,274,403,184	\$1,274,403,184
17	Deemed Equity Portion of Rate Base	\$550,722,140	\$550,722,140	\$ -	\$ -	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	2.17%	9.41%	0.00%	0.00%	0.00%	0.00%
19	Target Return - Equity on Rate Base	9.41%	9.41%	0.00%	0.00%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	-7.24%	0.00%	0.00%	0.00%	0.00%	0.00%
21	Indicated Rate of Return	2.90%	5.80%	2.01%	0.00%	-12.70%	0.00%
22	Requested Rate of Return on Rate Base	5.80%	5.80%	0.00%	0.00%	0.00%	0.00%
23	Deficiency/Sufficiency in Rate of Return	-2.90%	0.00%	2.01%	0.00%	-12.70%	0.00%
24	Target Return on Equity	\$51,822,953	\$51,822,953	\$ -	\$ -	\$ -	\$ -
25 26	Revenue Deficiency/(Sufficiency) Gross Revenue	\$39,864,816 \$54,237,845 ⁽¹⁾	(\$0)	(\$25,566,139) (\$34,783,863) ⁽¹⁾	\$ -	\$161,885,363 \$220,252,195 ⁽¹⁾	\$ -

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)

Deficiency/(Sufficiency)

Exhibit 6 Tab 1 Schedule 1



Revenue Requirement Workform ORIGINAL Page 9 of 17 (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application			_	Per Board Decision	
1	OM&A Expenses	\$97,800,117		\$97,800,117		\$97,800,117	
2	Amortization/Depreciation	\$60,711,328		\$60,711,328		\$60,711,328	
3	Property Taxes	\$3,373,918		\$3,373,918		\$3,373,918	
5	Income Taxes (Grossed up)	\$11,659,577		\$11,659,577		\$11,659,577	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$28,037,264		\$ -		\$ -	
	Return on Deemed Equity	\$51,822,953		\$ -	_	\$ -	
8	Service Revenue Requirement						
·	(before Revenues)	\$253,405,158		\$173,544,940	_	\$173,544,940	
9	Revenue Offsets	\$12,151,392		\$ -		\$ -	
10	Base Revenue Requirement	\$241,253,766	-	\$173,544,940	_	\$173,544,940	
	(excluding Tranformer Owership Allowance credit adjustment)		-	<u> </u>	_		
11	Distribution revenue	\$241,253,766		\$ -		\$ -	
12	Other revenue	\$12,151,391	_	\$ -	_	\$ -	
13	Total revenue	\$253,405,157		\$ -	_	\$ -	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	(\$0)	(1)	(\$173,544,940 <u>)</u>	(1)	(\$173,544,940) ⁽¹⁾	

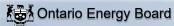
Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application		Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$253,405,158	\$173,544,940	(\$0)	\$173,544,940	(\$1)
Deficiency/(Sufficiency)	\$54,237,845	(\$34,783,863)	(\$2)	\$220,252,195	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$241,253,766	\$173,544,940	(\$0)	\$173,544,940	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$51,609,393	\$ -	(\$1)	\$ -	(\$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:

Initial Application

Customer Class	
Input the name of each customer class	SS.
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	
,	

	Initial Application	
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	2,333,345,000 698,161,000 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

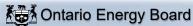
Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ Annual

Per Board Decision						
Customer / Connections	kWh	kW/kVA (1)				
Test Year average or mid-year	Annual	Annual				

Total 7,165,092,000 9,472,485 - - - - -

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: Initial Application

A) Allocated Costs

Name of Customer Class (3) From Sheet 10, Load Forecast		s Allocated from vious Study ⁽¹⁾	%	Allocated Class Revenue Requirement		%	
FIOIII Sileet 10. Load Forecast					(7A)		
Residential 2 GS < 50 kW	\$ \$	107,281,788 20,646,221	53.50% 10.30%	\$ \$	139,702,797 25,304,668	55.13% 9.99%	
GS > 50 kW	\$	48,750,762	24.31%	\$	63,013,095	9.99% 24.87%	
GS > 1,500 to 4,999 kW	\$	13,365,246	6.66%	\$	13,310,884	5.25%	
Large Use	\$	8,063,832	4.02%	\$	10,260,119	4.05%	
Street Lighting	\$	1,811,439	0.90%	\$	1,145,708	0.45%	
Sentinel Lighting	\$	6,568	0.00%	\$	11,514	0.00%	
Unmetered Scattered Load	\$	547,549	0.27%	\$	640,802	0.25%	
Standby Power	\$	70,655	0.04%	\$	15,572	0.01%	
Total	\$	200,544,060	Service Revenue Requirement (from Sheet 9)	\$	253,405,158 253,405,157.82	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 rent approved rates	LF X current proved rates X (1+d)	LF X	Proposed Rates	ı	Miscellaneous Revenues
	(7B)	(7C)		(7D)		(7E)
1 Residential	\$ 132,544,146	\$ 136,385,910	\$	136,367,910	\$	8,919,018
2 GS < 50 kW	\$ 28,165,169	\$ 29,193,269	\$	29,196,775	\$	1,086,449
GS > 50 to 1,499 kW	\$ 50,813,299	\$ 52,386,289	\$	52,386,108	\$	1,536,644
GS > 1,500 to 4,999 kW	\$ 12,644,685	\$ 12,693,866	\$	12,693,803	\$	300,461
Large Use	\$ 8,569,166	\$ 8,560,837	\$	8,560,784	\$	211,362
Street Lighting	\$ 1,263,020	\$ 1,316,537	\$	1,315,952	\$	57,134
Sentinel Lighting	\$ 6,815	\$ 7,072	\$	7,655	\$	973
Unmetered Scattered Load	\$ 646,345	\$ 686,221	\$	685,855	\$	38,872
Standby Power Carlotte Standby Power Carlotte Standby Power Carlotte Standby Power	\$ 22,891	\$ 23,765	\$	23,765	\$	479
Total	\$ 234,675,534	\$ 241,253,766	\$	241,238,607	\$	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%	104.01%	104.00%	85 - 115
2 GS < 50 kW	118.23%	119.66%	119.67%	80 - 120
3 GS > 50 to 1,499 kW	86.34%	85.57%	85.57%	80 - 120
GS > 1,500 to 4,999 kW	98.24%	97.62%	97.62%	80 - 120
Large Use	85.36%	85.50%	85.50%	85 - 115
Street Lighting	80.00%	119.90%	119.85%	80 - 120
Sentinel Lighting	76.00%	69.87%	74.94%	80 - 120
Unmetered Scattered Load	118.72%	113.15%	113.10%	80 - 120
Standby Power	21.03%	155.69%	155.69%	80 - 120
)				
2				
i				
i l				
6				
1				
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.

⁽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.

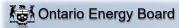
(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Proposed Revenue-to-Cost Ratio				
	Test Year	Test Year Price Cap IR F				
	2021	2022	2023			
Residential	104.00%	104.00%	104.00%	85 - 115		
GS < 50 kW	119.67%	119.67%	119.67%	80 - 120		
GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120		
GS > 1,500 to 4,999 kW	97.62%	97.62%	97.62%	80 - 120		
Large Use	85.50%	85.50%	85.50%	85 - 115		
Street Lighting	119.85%	119.85%	119.85%	80 - 120		
Sentinel Lighting	74.94%	74.94%	74.94%	80 - 120		
Unmetered Scattered Load	113.10%	113.10%	113.10%	80 - 120		
Standby Power	155.69%	155.69%	155.69%	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		325,150								
kWh		2,333,345,000								
Proposed Residential Class Specific Revenue	\$	136,367,910.00								
Requirement ¹										
Residential Base Rates on Curr	Residential Base Rates on Current Tariff									
Monthly Fixed Charge (\$)	\$	34.95								
Distribution Volumetric Rate (\$/kWh)	\$	-								

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	34.95	325,150	\$ 136,367,910.00	100.00%
Variable	0	2,333,345,000	\$ -	0.00%
TOTAL	-	=	\$ 136,367,910.00	=

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	
Transition Years ²	0

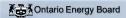
	Te	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	136,367,910.00	34.95	\$ 136,367,910.00
Variable	\$	-	0	\$ -
TOTAL	\$	136,367,910.00	-	\$ 136,367,910.00

				Revenue
		Revenue @ new	Final Adjusted	Reconciliation @
	New F/V Split	F/V Split	Base Rates	Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$ -	•	

Checks ³	
Change in Fixed Rate	
Difference Between Revenues @ Proposed Rates	
and Class Specific Payanua Paguirament	

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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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:			Initial Application		Cla	ss Allocated Rever	nues					Dist	ribution Rates			Revenue Reconciliati	on
	Customer and Lo	oad Forecast				I1. Cost Allocation esidential Rate Des		Fixed / Varia Percentage to b	e 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 Service	No. of decimals	Volu Rate	umetric Rate No de	of MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential 2 GS < 50 kW 3 GS > 50 to 1,499 kW 4 GS > 1,500 to 4,999 kW 5 Sar 1,500 to 4,999 kW 5 Sarest Lighting 5 Sentinet Lighting 5 Sanday Fower 5 Sanday Fower 111 112 113 114 115 116 117 118 119 119 119 110 111 111 112 113 114 115 116 117 118 119	KWh KWh KW KW KW KW KW KW KW KW	325,150 25,846 3,013 68 11 65,564 55 55 3,321 	2,333,345,000 698,161,000 2,844,419,000 684,488,000 19,603,000 19,603,000 12,195,000	6,838,752 1,521,105 1,050,683 54,373 132 - 7,440 - - - - -	\$ 136,367,910 \$ 29,196,775 \$ 62,386,108 \$ 12,693,803 \$ 8,560,784 \$ 1,315,952 \$ 685,855 \$ 685,855 \$ 23,765	\$ 136,367,910 \$ 7,484,009 \$ 8,385,706 \$ 3,645,806 \$ 2,112,088 \$ 889,046 \$ 3,960 \$ 279,612 \$ 6,732	\$ 21,712,766 \$ 241,000,402 \$ 9,047,997 \$ 6,448,696 \$ 426,906 \$ 3,695 \$ 406,243 \$ 17,033	100.00% 26.53% 16.01% 28.72% 67.55% 67.75% 40.77% 28.33%	0.00% 74.37% 83.99% 71.28% 75.33% 32.44% 48.27% 59.23% 71.67%	\$ 344,073 \$ 398,066 \$ 316,547	\$24.91 \$231.92 \$4.467.9 \$16,000.6 \$1.17. \$6.00 \$7.00 \$187.01		\$0.0000 \$0.0311 \$6.4843 \$6.2100 \$6.4389 \$7.9551 \$27.9950 \$0.0333 \$2.2894	/kWh /kWh /kW /kW /kW /kW /kWh /kWh	4 ####################################	\$21,712,807.1000 \$44,344,519.5936 \$ 9,446,062.0500 \$ 6,765,242.7687 \$ 426,904.1722 \$ 3,695.3400 \$ 406,093.5000	######################################
							т	otal Transformer Own	ership Allowance	\$ 1,058,686					Total Distribution	Revenues	*********
Notes: 1 Transformer Ownership Allowance is													Rates recover r	evenue requiren	nt Base Revenue Re	quirement	-\$ 15,158.99

¹ 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

Г			Cost of	Capital	pital Rate Base and Capital Expenditures		Operating Expenses			Revenue Requirement				
R	deference ⁽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	\$ 79,860,218	5.80%	\$1,376,805,350	\$1,365,362,209	\$ 102,402,166	\$ 60,711,328	\$ 11,659,577	\$ 97,800,117	\$ 253,405,158	\$ 12,151,391	\$ 241,253,766	\$ 54,237,845
ı														

Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2020 Filers



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 RegulatoryAffairs@HydroOttawa.com

Test Year 2025

Bridge Year

Last Rebasing Year 2016

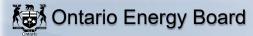
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion 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 require

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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

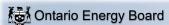
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pal	e green cel	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.



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Data Input (1)

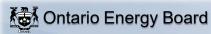
		Initial Application	(2)		(6)	Per Board Decision	_
1	Rate Base Gross Fixed Assets (average) Accumulated Depreciation (average) Allowance for Working Capital:	\$1,850,890,773 (\$537,205,937)	(5)	\$1,850,890,773 (\$537,205,937)		\$1,850,890,773 (\$537,205,937)	
	Controllable Expenses Cost of Power Working Capital Rate (%)	\$103,713,503 \$1,310,655,495 7.50%	(9)	\$ 103,713,503 \$ 1,310,655,495	(9)	\$103,713,503 \$1,310,655,495	(9)
2	Utility Income Operating Revenues:						
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$190,581,980 \$247,596,176					
	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096					
	Total Revenue Offsets	\$12,456,709	(7)				
	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Other expenses	\$100,254,900 \$64,026,637 \$3,458,604		\$ 100,254,900 \$ 64,026,637 \$ 3,458,604		\$100,254,900 \$64,026,637 \$3,458,604	
3	Taxes/PILs Taxable Income:						
	Adjustments required to arrive at taxable income	(\$32,076,354)	(3)				
	Utility Income Taxes and Rates: Income taxes (not grossed up)	\$5,651,577					
	Income taxes (grossed up)	\$7,689,220					
	Federal tax (%) Provincial tax (%) Income Tax Credits	15.00% 11.50% (\$85,000)					
4	Capitalization/Cost of Capital Capital Structure:						
	Long-term debt Capitalization Ratio (%) Short-term debt Capitalization Ratio (%) Common Equity Capitalization Ratio (%)	56.0% 4.0% 40.0%	(8)		(8)		(8)
	Prefered Shares Capitalization Ratio (%)	100.0%					
	Cost of Capital						
	Long-term debt Cost Rate (%) Short-term debt Cost Rate (%) Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	3.69% 2.75% 9.46%					

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.
- 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

	_
	Base
RAIR	DASE

	Nato Baco						
Line No.	Particulars	-	Initial Application				Per Board Decision
1	Gross Fixed Assets (average)	(2)	\$1,850,890,773	\$ -	\$1,850,890,773	\$ -	\$1,850,890,773
2	Accumulated Depreciation (average)	(2)	(\$537,205,937)	<u> </u>	(\$537,205,937)	<u> </u>	(\$537,205,937)
3	Net Fixed Assets (average)	(2)	\$1,313,684,836	\$ -	\$1,313,684,836	\$ -	\$1,313,684,836
4	Allowance for Working Capital	(1)	\$106,077,675	#########	<u> </u>	\$	\$ -
5	Total Rate Base		\$1,419,762,511	###############	\$1,313,684,836	\$ -	\$1,313,684,836

(1) Allowance for Working Capital - Derivation

Controllable Expenses Cost of Power Working Capital Base		\$103,713,503 \$1,310,655,495 \$1,414,368,998	\$ - \$ - \$ -	\$103,713,503 \$1,310,655,495 \$1,414,368,998	\$ - \$ - \$ -	\$103,713,503 <u>\$1,310,655,495</u> \$1,414,368,998
Working Capital Rate %	(1)	7.50%	-7.50%	0.00%	0.00%	0.00%
Working Capital Allowance		\$106,077,675	##########	\$ -	\$ -	\$

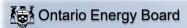
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Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.



Utility Income

Line No.	Particulars	Initial Application				Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$247,596,176	(\$247,596,176)	\$ -	\$ -	\$ -
2	Other Revenue (1	\$12,456,709	(\$12,456,709)	<u> </u>	<u> </u>	\$ -
3	Total Operating Revenues	\$260,052,885	(\$260,052,885)	\$ -	\$ -	\$ -
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 \$- \$-	\$ - \$ - \$ - \$ - \$ -	\$100,254,900 \$64,026,637 \$3,458,604 \$-	\$ - \$ - \$ - \$ - \$ -	\$100,254,900 \$64,026,637 \$3,458,604 \$-
9	Subtotal (lines 4 to 8)	\$167,740,140	\$ -	\$167,740,140	\$ -	\$167,740,140
10	Deemed Interest Expense	\$30,899,711	(\$30,899,711)	\$ -	\$ -	\$-
11	Total Expenses (lines 9 to 10)	\$198,639,852	(\$30,899,711)	\$167,740,140	\$-	\$167,740,140
12	Utility income before income taxes	\$61,413,034	(\$229,153,174)	(\$167,740,140)	\$ -	(\$167,740,140)
13	Income taxes (grossed-up)	\$7,689,220	\$ -	\$7,689,220	\$ -	\$7,689,220
14	Utility net income	\$53,723,813	(\$229,153,174)	(\$175,429,361)	<u>\$ -</u>	(\$175,429,361)
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096		\$ - \$ - \$ - \$ -		\$ - \$ - \$ - \$ -
	Total Revenue Offsets	\$12,456,709	<u> \$ -</u>	<u> </u>	<u> </u>	<u> </u>

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Revenue Requirement Workform (RRWF) for 2020 Filers

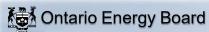
Taxes/PILs

Line No.	Particulars	Application		Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$53,723,813	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$32,076,354)	\$ -	\$ -
3	Taxable income	\$21,647,459	\$ -	<u> </u>
	Calculation of Utility income Taxes			
4	Income taxes	\$5,651,577	\$5,651,577	\$5,651,577
6	Total taxes	\$5,651,577	\$5,651,577	\$5,651,577
7	Gross-up of Income Taxes	\$2,037,643	\$2,037,643	\$2,037,643
8	Grossed-up Income Taxes	\$7,689,220	\$7,689,220	\$7,689,220
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$7,689,220	\$7,689,220	\$7,689,220
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

Schedule 1

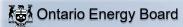
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Capitalization/Cost of Capital

Line No.	Particulars	Capitali	zation Ratio	Cost Rate	Return
		Initial A	Application		
	Debt	(%)	(\$)	(%)	(\$)
1 2 3	Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$795,067,006 \$56,790,500 \$851,857,507	3.69% 2.75% 3.63%	\$29,337,973 \$1,561,739 \$30,899,711
	Equity		· · ·		
4 5	Common Equity Preferred Shares	40.00% 0.00%	\$567,905,004 \$ -	9.46% 0.00%	\$53,723,813 \$ -
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
	Debt	(%)	(\$)	(%)	(\$)
1 2	Long-term Debt Short-term Debt	0.00%	\$ - \$ -	0.00% 0.00%	\$ - \$ -
3	Total Debt	0.00%	<u> </u>	0.00%	<u> \$ -</u>
4 5	Equity Common Equity Preferred Shares	0.00%	\$ - \$ -	0.00% 0.00%	\$ - \$ -
6	Total Equity	0.00%	<u> </u>	0.00%	<u> </u>
7	Total	0.00%	\$1,313,684,836	0.00%	<u> </u>
		Per Boa	rd Decision		
	Dobt	(%)	(\$)	(%)	(\$)
8 9 10	Long-term Debt Short-term Debt Total Debt	0.00% 0.00% 0.00%	\$ - \$ - \$ -	3.69% 2.75% 0.00%	\$ - \$ - \$ -
11 12 13	Equity Common Equity Preferred Shares Total Equity	0.00% 0.00% 0.00%	\$ - \$ - \$ -	9.46% 0.00% 0.00%	\$ - \$ - \$ -
14	Total	0.00%	\$1,313,684,836	0.00%	\$ -
<u>Notes</u>					



Revenue Deficiency/Sufficiency

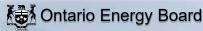
		Initial Appl	ication			Per Board [Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2	Revenue Deficiency from Below Distribution Revenue	\$190.581.980	\$66,993,165 \$180,603,011	\$190,581,980	(\$31,192,979) \$278,789,155	\$-	\$228,217,878 (\$228,217,878)
3	Other Operating Revenue Offsets - net	\$12,456,709	\$12,456,709	\$ 190,361,960	\$-	\$ -	(\$220,217,676)
4	Total Revenue	\$203,038,689	\$260,052,885	\$190,581,980	\$247,596,176	\$ -	\$ -
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	\$167,740,140 \$ - \$167,740,140	\$167,740,140 \$ - \$167,740,140	\$167,740,140 \$- \$167,740,140	\$167,740,140 \$ - \$167,740,140
9	Utility Income Before Income Taxes	\$4,398,837	\$61,413,034	\$22,841,839	\$79,856,036	(\$167,740,140)	(\$167,740,140)
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	\$ -	\$ -
11	Taxable Income	(\$27,677,517)	\$29,336,680	(\$9,234,515)	\$47,779,682	(\$167,740,140)	(\$167,740,140)
12 13	Income Tax Rate	26.50% \$ -	26.50% \$7,774,220	26.50% \$ -	26.50% \$12,661,616	26.50% \$ -	26.50% \$ -
14	Income Tax on Taxable Income Income Tax Credits	(\$85,000)	(\$85.000)	(\$85.000)	(\$85.000)	\$ -	\$ -
15	Utility Net Income	\$4,483,837	\$53,723,813	\$22,926,839	(\$175,429,361)	(\$167,740,140)	(\$175,429,361)
16	Utility Rate Base	\$1,419,762,511	\$1,419,762,511	\$1,313,684,836	\$1,313,684,836	\$1,313,684,836	\$1,313,684,836
17	Deemed Equity Portion of Rate Base	\$567,905,004	\$567,905,004	\$ -	\$ -	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	0.79%	9.46%	0.00%	0.00%	0.00%	0.00%
19	Target Return - Equity on Rate Base	9.46%	9.46%	0.00%	0.00%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	-8.67%	0.00%	0.00%	0.00%	0.00%	0.00%
21	Indicated Rate of Return	2.49%	5.96%	1.75%	0.00%	-12.77%	0.00%
22	Requested Rate of Return on Rate Base	5.96%	5.96%	0.00%	0.00%	0.00%	0.00%
23	Deficiency/Sufficiency in Rate of Return	-3.47%	0.00%	1.75%	0.00%	-12.77%	0.00%
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)	\$ - (\$22,926,839) (\$31,192,979) (1)	\$ - \$ -	\$ - \$167,740,140 \$228,217,878 (1)	\$ - \$ -

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)

Exhibit 6

Tab 1 Schedule 1



Revenue Requirement Workform Attachment E ORIGINAL Page 9 of 17 (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application			Per Board Decision	
1	OM&A Expenses	\$100,254,900	\$1	00,254,900	\$100,254,900	
2	Amortization/Depreciation	\$64,026,637	\$	64,026,637	\$64,026,637	
3	Property Taxes	\$3,458,604		\$3,458,604	\$3,458,604	
5	Income Taxes (Grossed up)	\$7,689,220		\$7,689,220	\$7,689,220	
6	Other Expenses	\$ -				
7	Return					
	Deemed Interest Expense	\$30,899,711		\$ -	\$ -	
	Return on Deemed Equity	\$53,723,813		\$ -	\$-	
8	Service Revenue Requirement					
Ū	(before Revenues)	\$260,052,886	\$1	75,429,361	\$175,429,361	
9	Revenue Offsets	\$12,456,709		\$ <u>-</u>	<u> </u>	
10	Base Revenue Requirement	\$247,596,177	\$1	75,429,361	\$175,429,361	
	(excluding Tranformer Owership Allowance credit adjustment)					
11	Distribution revenue	\$247.596.176		\$ -	\$ -	
12	Other revenue	\$12,456,709		\$ -	\$ -	
13	Total revenue	\$260,052,885		\$ -	<u> </u>	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	(\$0)	(1)	75,429,361) ⁽¹) (\$175,429,361) ⁽	(1)

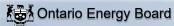
Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application		Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$260,052,886	\$175,429,361	(\$0)	\$175,429,361	(\$1)
Deficiency/(Sufficiency)	\$66,993,165	(\$31,192,979)	(\$1)	\$228,217,878	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$247,596,177	\$175,429,361	(\$0)	\$175,429,361	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$57,014,196	\$ -	(\$1)	\$ -	(\$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:

Initial Application

Customer Class	
Input the name of each customer class.	Custor Connect Test Year or mid-
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	

	Initial Application	
Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ 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

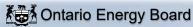
Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ Annual

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 - - - -

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: Initial Application

A) Allocated Costs

Name of Customer Class (3) From Sheet 10, Load Forecast		s Allocated from vious Study ⁽¹⁾	%	-	Allocated Class enue Requirement	%		
FIOIII Sileet 10. Load Forecast					(7A)			
Residential 2 GS < 50 kW	\$ \$	107,281,788 20,646,221	53.50% 10.30%	\$ \$	143,367,703 25,968,500	55.13% 9.99%		
GS > 50 kW	\$	48,750,762	24.31%	\$	64,666,154	9.99% 24.87%		
GS > 1,500 to 4,999 kW	\$	13,365,246	6.66%	\$	13,660,076	5.25%		
Large Use	\$	8,063,832	4.02%	\$	10,529,279	4.05%		
Street Lighting	\$	1,811,439	0.90%	\$	1,175,764	0.45%		
Sentinel Lighting	\$	6,568	0.00%	\$	11,816	0.00%		
Unmetered Scattered Load	\$	547,549	0.27%	\$	657,613	0.25%		
Standby Power	\$	70,655	0.04%	\$	15,981	0.01%		
Total	\$	200,544,060	Service Revenue Requirement (from Sheet 9)	\$	260,052,885 260,052,885.54	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 rent approved rates	LF X current proved rates X (1+d)	LF X	Proposed Rates	Miscellaneous Revenues		
	(7B)	(7C)		(7D)	(7E)		
1 Residential	\$ 137,552,715	\$ 139,964,128	\$	139,953,492	\$	9,143,118	
QS < 50 kW	\$ 29,178,015	\$ 29,965,774	\$	29,937,710	\$	1,113,748	
GS > 50 to 1,499 kW	\$ 52,578,351	\$ 53,765,396	\$	53,765,060	\$	1,575,253	
GS > 1,500 to 4,999 kW	\$ 13,081,988	\$ 13,027,937	\$	13,027,958	\$	308,010	
Large Use	\$ 8,853,385	\$ 8,786,137	\$	8,786,098	\$	216,673	
Street Lighting	\$ 1,313,957	\$ 1,350,621	\$	1,350,026	\$	58,569	
Sentinel Lighting	\$ 7,655	\$ 7,858	\$	8,456	\$	997	
Unmetered Scattered Load	\$ 670,303	\$ 703,934	\$	704,189	\$	39,849	
Standby Power 2 2 3 4 5 6 7 7	\$ 23,765	\$ 24,391	\$	24,391	\$	491	
Total	\$ 243,260,136	\$ 247,596,176	\$	247,557,380	\$	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%	104.00%	104.00%	85 - 115
GS < 50 kW	118.23%	119.68%	119.57%	80 - 120
GS > 50 to 1,499 kW	86.34%	85.58%	85.58%	80 - 120
GS > 1,500 to 4,999 kW	98.24%	97.63%	97.63%	80 - 120
Large Use	85.36%	85.50%	85.50%	85 - 115
Street Lighting	80.00%	119.85%	119.80%	80 - 120
Sentinel Lighting	76.00%	74.94%	80.00%	80 - 120
Unmetered Scattered Load	118.72%	113.10%	113.14%	80 - 120
Standby Power	21.03%	155.70%	155.70%	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.

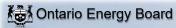
(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Policy Range		
	Test Year	Price Cap IR F	Period	
	2021	2022	2023	
Residential	104.00%	104.00%	104.00%	85 - 115
GS < 50 kW	119.57%	119.57%	119.57%	80 - 120
GS > 50 to 1,499 kW	85.58%	85.58%	85.58%	80 - 120
GS > 1,500 to 4,999 kW	97.63%	97.63%	97.63%	80 - 120
Large Use	85.50%	85.50%	85.50%	85 - 115
Street Lighting	119.80%	119.80%	119.80%	80 - 120
Sentinel Lighting	80.00%	80.00%	80.00%	80 - 120
Unmetered Scattered Load	113.14%	113.14%	113.14%	80 - 120
Standby Power	155.70%	155.70%	155.70%	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 Re	esident	ial Class
Customers		327,975
kWh		2,353,299,000
Proposed Residential Class Specific Revenue	\$	139,953,492.00
Requirement ¹		
=		
Residential Base Rates on Cur	rent Ta	riff
Monthly Fixed Charge (\$)	\$	35.56
Distribution Volumetric Rate (\$/kWh)	\$	-

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	35.56	327,975	\$ 139,953,492.00	100.00%
Variable	0	2,353,299,000	\$ -	0.00%
TOTAL	=	=	\$ 139,953,492.00	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	
Transition Years ²	0

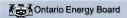
	T	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	139,953,492.00	35.56	\$ 139,953,492.00
Variable	\$	-	0	\$ -
TOTAL	\$	139,953,492.00	-	\$ 139,953,492.00

				Revenue
		Revenue @ new	Final Adjusted	Reconciliation @
	New F/V Split	F/V Split	Base Rates	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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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:			Initial Application		Cla	Class Allocated Revenues Distribution Rates								Revenue Reconciliati	on					
Customer and Load Forecast				From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design Percentage to be entered as a fraction between 0 and 1																
Customer Class	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Volumetric			Fixed	Fixed Variable		Fixed Variable		Monthly Ser	No. of		netric Rate No. of		Volumetric	Revenues les Transformer Ownership
From sheet 10. Load Forecast	Determinant				Requirement					Allowance 1 (\$)	Rate	decimals	Rate	decimals	MSC Revenues	revenues	Allowance			
Residential (\$S < 50 kW (\$S > 50 to 1.499 kW (\$S > 1.500 to 4.999 kW Large Use Street Lighting Sentinel Lighting Sentinel Lighting Unmetered Scattered Load Standby Power	KWYh KW KW KW KW KW KW KW KW	327,975 25,987 2,976 68 111 66,494 555 3,321 3	2,353,299,000 696,245,000 2,845,454,000 883,614,000 870,390,000 18,854,000 11,728,000	6,831,218 1,519,514 1,046,984 52,530 132 7,440	\$ 139,953,492 \$ 29,937,101 \$ 53,765,060 \$ 13,027,858 \$ 8,766,098 \$ 1,350,026 \$ 8,456 \$ 704,189 \$ 24,391	\$ 139,942,886 \$ 7,756,233 \$ 8,469,879 \$ 3,645,609 \$ 2,112,088 \$ 925,459 \$ 4,376 \$ 293,816 \$ 6,910	\$ 10,606 \$ 22,210,75 \$ 45,295,181 \$ 9,382,149 \$ 6,674,010 \$ 424,567 \$ 4,080 \$ 410,374 \$ 17,482	99.99% 25.81% 15.75% 27.98% 24.04% 68.65% 51.75% 41.72% 28.33%	0.01% 74.19% 84.25% 72.02% 75.96% 31.45% 48.25% 58.28% 71.67%	\$ 288,107 \$ 333,317 \$ 265,058	\$35.5 \$24.7 \$237.1 \$4,467.9 \$16,000.6 \$1.1 \$5.6 \$7.3 \$191.9	8 7 0 7 6 3 7	\$0.0319 \$6.6728 \$6.3938 \$6.6278 \$8.0824 \$30.9073 \$0.0350	RAWTh 4 RAWTh RAW	######################################	\$ 22.210.215.5000 \$45.5803.351.4704 \$45.5803.351.4704 \$ 9.715.486.833.51 \$ 6.3930.607.9902 \$ 4225.586.4720 \$ 4.079.7636 \$ 410.480.000 \$ 17,481.7680 \$ 5 \$ - \$ \$ -	######################################			
							1	Total Transformer Ow	nership Allowance	\$ 886,482					Total Distribution R	Revenues	##########			
res:													Rates recover rev	venue requirement	Base Revenue Requ	uirement	**********			
Transformer Ownership Allowance is	antarad on a positive	and only fo	r these classes to wh	ich it applies											Difference % Difference		-\$ 38,796. -0.01			

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.)

Summary of Proposed Changes

			Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Ope	erating Expense	es	Revenue Requirement			
Re	eference ⁽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

⁽²⁾ Short description of change, issue, etc.