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DECISION AND RATE ORDER

EB-2022-0042

HYDRO OTTAWA LIMITED

**Application for rates and other charges to be effective
January 1, 2023**

BY DELEGATION, BEFORE: Theodore Antonopoulos
Vice President
Applications

December 8, 2022

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1 OVERVIEW

The Ontario Energy Board is approving changes to the rates that Hydro Ottawa Limited charges to distribute electricity to its customers, effective January 1, 2023.

Hydro Ottawa serves approximately 353,000 customers in the City of Ottawa and the Village of Casselman. The company is seeking the OEB's approval for the rates it charges to distribute electricity to its customers, as is required of licensed and rate-regulated distributors in Ontario.

A distributor may choose one of three rate-setting methodologies approved by the OEB.

Commencing with 2021 rates, Hydro Ottawa selected the Custom Incentive Rate-setting methodology (Custom IR) that has a five-year term. The OEB approved the settlement agreement submitted on September 18, 2020 (2021-2025 Approved Settlement Agreement) that included a five-year Custom IR framework which covered the years 2021 to 2025.¹ As part of that proceeding, the OEB issued a final rate order establishing the rates for 2021.² Rates for subsequent years were to be adjusted mechanistically through a custom price adjustment formula for Operations, Maintenance and Administration (OM&A) costs and a pre-approved capital investment forecast for years two through five of the Custom IR term. An annual incremental capital stretch factor of 0.6% is applied to the capital-related revenue requirement for each year of 2022-2025. This is referred to in section four of this Decision and Rate Order as the Base Rate Adjustment.

The key components of the Custom IR framework are listed below:

- Capital spending and operating expenses have been set for a five-year period (2021 to 2025), pursuant to specific adjustments
- A custom price escalation factor (CPEF) applies to OM&A costs for the 2022-2025 period
- A capital stretch factor applies to the capital-related revenue requirement for the 2022-2025 period
- An asymmetrical earnings sharing mechanism (ESM) account on a 50/50 basis with no dead band

¹ Decision and Order, EB-2019-0261, November 19, 2020.

² Decision and Rate Order, EB-2019-0261, January 7, 2021.

- A performance outcomes accountability mechanism (POAM) deferral account to link the execution of certain aspects of Hydro Ottawa's distribution system plan (DSP) to the recovery of amounts included in the agreed-upon revenue requirement
- Three asymmetrical sub-accounts to record the revenue requirement impact of underspending in the System Access (excluding plant relocation and residential expansion), System Renewal/System Service, and General Plant categories
- A separate symmetrical System Access sub-account to track the revenue requirement impacts associated with plant relocation requested by third parties and residential expansion
- Adjusting the working capital allowance by the OEB's inflation factor for the 2022-2025 period
- Fixed short-term debt and long-term debt rates over the 2021-2025 period. Adopting the OEB's 2021 return on equity (ROE) for the 2021-2023 period, and updating it using the OEB's 2024 ROE for the 2024-2025 period

As part of its approved Custom IR, Hydro Ottawa was required to file applications annually to implement the OEB's approval of that framework for the years following the initial decision. Hydro Ottawa was also required to file certain adjustments that include pass-through costs (i.e., costs for which Hydro Ottawa does not charge a mark-up) such as those that are incurred by Hydro Ottawa for settling with the Independent Electricity System Operator (IESO) on behalf of its customers.

As a result of the OEB's findings in this Decision and Rate Order, there will be a monthly total bill increase of \$4.67 for a residential customer consuming 750 kWh. This change does not factor in applicable taxes or the Ontario Electricity Rebate.

2 CONTEXT AND PROCESS

Hydro Ottawa filed its application on August 3, 2022 under section 78 of the *Ontario Energy Board Act, 1998* (OEB Act) in accordance with Chapters 2 and 3 of the OEB's Filing Requirements.³ The application was based on the Custom IR option, with a five-year term.

The OEB follows a streamlined process for Custom IR update applications. An application of this nature may be decided by a panel of Commissioners, or it may be delegated to OEB staff, depending on the complexity of the applications.

After an initial review of the application, the OEB determined that the application is largely mechanistic in nature with respect to the adjustments contemplated. Therefore, this Decision and Rate Order is being issued by delegated authority, without a hearing, under section 6 of the OEB Act.

Under this type of process, the application is reviewed by OEB staff to verify whether the requested adjustments are consistent with the OEB's decision and order issued on November 19, 2020. This includes but is not limited to any updates or adjustments identified in the OEB's decision and order issued on November 19, 2020.

Hydro Ottawa supported its application with written evidence and completed rate models. During the course of the proceeding, Hydro Ottawa responded to OEB staff questions through emails and phone calls and, where required, updated and clarified the evidence.

³ *Filing Requirements for Electricity Distribution Rate Applications*, issued June 24, 2021.

3 DECISION OUTLINE

Each of the following issues is addressed in this Decision and Rate Order, together with the OEB's findings.

- Base Rate Adjustment
- Cost Allocation
- Rate Design
- Group 1 Deferral and Variance Accounts
- Lost Revenue Adjustment Mechanism Variance Account
- Retail Transmission Service Rates
- Low Voltage Charges
- Retail Service Charges
- Specific Service Charges

Instructions for implementing Hydro Ottawa new rates and charges are set out in the final section of this Decision and Rate Order.

4 BASE RATE ADJUSTMENT

Hydro Ottawa's base rates are comprised of a monthly fixed charge and a monthly variable charge.⁴ Together, these charges recover Hydro Ottawa's OM&A and capital costs.

As part of the 2021-2025 Approved Settlement Agreement, the base for the five-year custom price cap adjustment formula for recoverable OM&A was set at \$90.6 million for the 2021 test year, including property taxes. For the 2022-2025 rate years, a CPEF was agreed upon to escalate OM&A expenditures on an annual basis.

The CPEF is derived as "I minus X plus G", where I (inflation factor) is the OEB's standard Input Price Index; X (productivity factor) is the sum of the OEB's current base productivity factor of 0% and an agreed-upon stretch factor of 0.45%; and G (growth factor) is calculated using the average annual growth in customers from 2021 to 2025 (i.e., 0.97%) multiplied by a scaling factor (i.e., 0.35). Using the 2023 inflation factor of 3.7% established by the OEB, Hydro Ottawa calculated the 2023 CPEF as 3.59%. The resulting OM&A proposed to be incorporated into the 2023 revenue requirement is \$96.8 million.

Hydro Ottawa's capital additions, depreciation, and disposal have been set for the Custom IR term as part of the 2021-2025 Approved Settlement Agreement. Hydro Ottawa's working capital allowance will be annually adjusted based on the OEB's inflation factor. The 2022 OEB-approved working capital allowance was \$88.3 million. Hydro Ottawa has updated the 2023 working capital allowance to \$91.5 million. The 2023 proposed rate base is \$1,349.2 million.

As part of the 2021-2025 Approved Settlement Agreement, the parties agreed that payments in lieu of taxes (PILs) will be updated annually for changes to rate base resulting from the annual update to working capital allowance. The 2023 proposed PILs is \$6.3 million.

With respect to cost of capital, the parties agreed in the 2021-2025 Approved Settlement Agreement that short-term and long-term debt rates are fixed over the Custom IR term. The OEB-established ROE for 2021 rates is embedded in rates for the period of 2021-2023. For 2024 and 2025, Hydro Ottawa will update its ROE using the OEB-established value for 2024 rates.

As part of the 2021-2025 Approved Settlement Agreement, the parties agreed to a capital stretch factor to incentivize Hydro Ottawa to achieve productivity savings and

⁴ The residential class completed the transition to a fully fixed distribution charge through the OEB's approval of Hydro Ottawa's 2020 rate adjustment application.

continuous improvement in its capital programs. For the 2022 rate year, a capital stretch factor of 0.6% was applied to the proposed capital-related revenue requirement, which is calculated by adding a stretch factor of 0.15% to the stretch factor of 0.45% included in the CPEF. For the period of 2023-2025, the capital stretch factor increases by a value of 0.6% on an annual basis. For the 2023 rate year, the capital stretch factor of 1.2% is applied. The application of the capital stretch factor results in a reduction of \$1,659k in capital-related revenue requirement for the 2023 rate year.

With respect to other revenue, in accordance with the 2021-2025 Approved Settlement Agreement, some portions of other revenue (i.e., late payment charges, other operating revenue, other income & deductions) have been set for the Custom IR term, while a portion of revenues from specific service charges will be updated annually per the CPEF, excluding the G factor. The proposed 2023 other revenue is \$9.3 million.

The capital additions revenue requirement differential variance accounts were established to track revenue requirement impacts resulting from any underspending in Hydro Ottawa's three capital spending categories (i.e., System Access, System Renewal/System Service, and General Plant). These three sub-accounts are asymmetrical, in that overspending will not result in recording amounts to be recovered from customers. There is a separate symmetrical System Access sub-account to track the revenue requirement impacts associated with plant relocation requested by third parties and residential expansion.

The purpose of the ESM variance account is to refund ratepayers 50% of any earnings above Hydro Ottawa's deemed regulated ROE. In accordance with the 2021-2025 Approved Settlement Agreement, this account functions on a cumulative basis. The balance, if any, will be disposed on a final basis to customers at the end of the Custom IR term.

The POAM deferral account was established to provide ratepayers a refund when Hydro Ottawa's performance metrics established in the 2021-2025 DSP are not met. There are five performance metrics⁵ which have an annual target. If the target is not met in any year of the Custom IR term, Hydro Ottawa will credit the deferral account up to \$200k. The maximum amount that can be credited in any year is \$1.0 million for all five targets. If all targets are met, no credit will be recorded into this account.

⁵ Number of Interruptions Caused by Defective Equipment (Overhead System) – Excluding Major Event Days; Number of Interruptions Caused by Defective Equipment (Underground System) – Excluding Major Event Days and Leaking Padmount Transformers; System Average Interruption Duration Index – Excluding Major Event Days and Loss of Supply; Wood Pole Replacement Unit Cost; and Underground Cable Replacement Unit Cost.

Findings

In determining 2023 rates, the OM&A, PILs, capital additions, and revenue offset amounts included in Hydro Ottawa's 2023 revenue requirement and, accordingly, its base rates, have been adjusted in accordance with the 2021-2025 Approved Settlement Agreement and are approved.

Hydro Ottawa has reported balances in the capital additions revenue requirement differential, ESM and POAM deferral and variance accounts. In accordance with the 2021-2025 Approved Settlement Agreement, these accounts will be reviewed for disposition at the end of the Custom IR term.

5 COST ALLOCATION

As part of the 2021-2025 Approved Settlement Agreement, Hydro Ottawa's cost allocation model and customer class revenue-to-cost ratio ranges were approved, with the modification that the Sentinel Lighting class would transition to the OEB's approved revenue-to-cost ratio range by 2025.

Table 5.1 outlines the revenue-to-cost ratio adjustments proposed by Hydro Ottawa for the 2023 rate year.

Table 5.1: Revenue-to-Cost Ratios

Rate Classification	Current 2022 Ratio (%)	Proposed 2023 Ratio (%)
RESIDENTIAL SERVICE	101.08	101.08
GENERAL SERVICE LESS THAN 50 KW SERVICE	119.94	119.89
GENERAL SERVICE 50 TO 1,499 KW SERVICE	90.44	90.43
GENERAL SERVICE 1,500 TO 4,999 KW SERVICE	102.32	102.32
LARGE USE	86.10	86.09
STREET LIGHTING SERVICE	119.94	119.90
SENTINEL LIGHTING SERVICE	62.19	65.15
UNMETERED SCATTERED LOAD SERVICE	104.61	104.57
STANDBY POWER	33.23	33.23

Findings

The OEB approves Hydro Ottawa's revenue-to-cost ratio adjustments for the 2023 rate year in accordance with Table 5.1 above. The OEB finds that the proposed adjustments are consistent with the 2021-2025 Approved Settlement Agreement.

6 RATE DESIGN

As part of the 2021-2025 Approved Settlement Agreement, the parties agreed to the rate design methodologies for each rate class except for three commercial customer classes: General Service > 50 to 1,499 kW, General Service 1,500 to 4,999 kW, and Large Use.

With respect to these three commercial customer classes, pursuant to the OEB's decision and order issued on November 19, 2020, the fixed/variable rate design for these classes shall be determined based on the following terms:

Fixed charges should be set by comparing the fixed charge resulting from Hydro Ottawa's standard rate design approach with the previous year's level for the five year rate term. In years where maintaining the current fixed/variable revenue split results in a higher fixed charge than the previous year, Hydro Ottawa shall maintain the fixed charge at the previous year's level. In years where maintaining the current fixed/variable revenue split results in a lower fixed charge than the previous year, Hydro Ottawa shall maintain the fixed charge at the lower value.⁶

In determining 2023 rates, Hydro Ottawa proposed to maintain the fixed charges for these three commercial classes at the 2022 level and adjust variable rates to ensure recovery of the requested revenue requirement for those classes.

⁶ Decision and Order, EB-2019-0261, November 19, 2020.

Table 6.1 outlines the 2023 proposed fixed and variable charges by rate class.

Table 6.1: Fixed/Variable Charges

Rate Classification	Current 2022		Proposed 2023	
	Fixed \$	Variable \$/kWh or \$/kW	Fixed \$	Variable \$/kWh or \$/kW
RESIDENTIAL SERVICE	30.77	0.0000	32.14	0.0000
GENERAL SERVICE LESS THAN 50 KW SERVICE	20.83	0.0270	21.84	0.0283
GENERAL SERVICE 50 TO 1,499 KW SERVICE	200.00	5.6423	200.00	5.9845
GENERAL SERVICE 1,500 TO 4,999 KW SERVICE	4,193.93	5.1687	4,193.93	5.5121
LARGE USE	15,231.32	5.0761	15,231.32	5.4310
STREET LIGHTING SERVICE	1.01	6.9763	1.05	7.3273
SENTINEL LIGHTING SERVICE	4.63	21.7203	5.16	24.2011
UNMETERED SCATTERED LOAD SERVICE	5.80	0.0276	6.24	0.0297
STANDBY POWER 50 TO 1,499 KW SERVICE	162.65	2.0449	171.83	2.2930
STANDBY POWER 1,500 TO 4,999 KW SERVICE	162.65	1.9910	171.83	2.1033
STANDBY POWER LARGE USE	162.65	2.0816	171.83	2.3341

Findings

The OEB finds that Hydro Ottawa's proposed rate design is consistent with the OEB's decision and order issued on November 19, 2020. The resulting total bill impacts for all customer classes demonstrate that no mitigation is required. The OEB approves the fixed and variable charges by rate class as proposed by Hydro Ottawa.

7 GROUP 1 DEFERRAL AND VARIANCE ACCOUNTS

In each year of a Custom IR update term, the OEB will review a distributor's Group 1 deferral and variance accounts to determine whether those balances should be disposed of. OEB policy states that Group 1 account balances should be disposed of if they exceed, on a net basis (as a debit or credit), a pre-set disposition threshold of \$0.001 per kWh, unless a distributor justifies why balances should not be disposed.⁷ If the net balance does not exceed the threshold, a distributor may still request disposition.⁸

The 2021 year-end net balance for Hydro Ottawa's Group 1 accounts eligible for disposition, including interest projected to December 31, 2022, is a debit of \$4,223,692 and pertains to variances accumulated during the 2021 calendar year. Hydro Ottawa noted that this amount exceeds the disposition threshold.⁹ Hydro Ottawa has requested approval to collect a debit amount of \$11,786,810 for Group 1 balances, excluding Global Adjustment (GA) and Capacity Based Recovery (CBR) Class B variance accounts over a two-year period. Hydro Ottawa has requested approval to refund a credit amount of \$7,104,046¹⁰ for Global Adjustment and CBR Class B variance accounts over a one-year period.

Included in the Group 1 accounts are certain variances related to costs that are paid for by a distributor's customers on different bases, depending on their classification. Specifically, "Class A" customers, who participate in the Industrial Conservation Initiative, pay for GA charges based on their contribution to the five highest Ontario demand peaks over a 12-month period. "Class B" customers pay for GA charges based on their monthly consumption totals, either as a standalone charge or embedded in the Regulated Price Plan (RPP).¹¹ A similar mechanism applies to Class A and Class B customers for CBR charges.¹² The balance in the GA variance account is attributable to non-RPP Class B customers and is disposed through a separate rate rider. The balance in the CBR Class B variance account is attributable to all Class B customers.

Hydro Ottawa had Class A customers during the period in which variances accumulated so it has applied to have the balance of the CBR Class B variance account disposed

⁷ Report of the OEB – "Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR)." EB-2008-0046, July 31, 2009.

⁸ OEB letter, "Update to the Electricity Distributors' Deferral and Variance Account Review ("EDDVAR Report"), released July 2009 (EB-2008-0046)", issued July 25, 2014

⁹⁹ Exhibit 9, Tab 2, Schedule 1, page 1.

¹⁰ Amount excludes portion of account balances allocated to transition customers.

¹¹ For additional details on the Global Adjustment charge, refer to the Independent Electricity System Operator (IESO)'s [website](#).

¹² All Class B customers (RPP and non-RPP) pay the CBR as a separate charge based on their monthly consumption. For additional details on the CBR for Class A customers, refer to the IESO's [website](#).

through a separate rate rider for Class B customers to ensure proper allocation between Class A and Class B customers.

During the period in which variances accumulated, Hydro Ottawa had customers transition between Class A and Class B. Under the general principle of cost causality, customer groups that cause variances that are recorded in Group 1 accounts should be responsible for paying (or receiving credits) for their disposal. Hydro Ottawa has proposed to allocate a portion of the GA and CBR Class B balances to its transitioning customers, based on their customer-specific consumption levels.¹³ The amounts allocated to each transitioning customer are proposed to be recovered (or refunded, as applicable), by way of a one-time bill adjustment.

Findings

The balances proposed by Hydro Ottawa for disposition reconcile with the amounts reported by Hydro Ottawa pursuant to the OEB's *Electricity Reporting and Record-Keeping Requirements*.

The OEB approves the disposition of a debit balance of \$4,223,692 as of December 31, 2021, including interest projected to December 31, 2022, for Group 1 accounts on a final basis.

Table 7.1 identifies the principal and interest amounts, which the OEB approves for disposition.

¹³ IRR Attachment 5, DVA Continuity Schedule – Tab 6.1a “GA Allocation” and Tab 6.2a “CBR B Allocation”, October 5, 2022

Table 7.1: Group 1 Deferral and Variance Account Balances

Account Name	Account Number	Principal Balance (\$) A	Interest Balance (\$) B	Total Claim (\$) C=A+B
LV Variance Account	1550	(381,170)	(6,727)	(387,897)
Smart Meter Entity Variance Charge	1551	(232,697)	(3,800)	(236,496)
RSVA - Wholesale Market Service Charge	1580	4,316,454	75,807	4,392,262
Variance WMS - Sub-account CBR Class B	1580	(693,237)	(11,419)	(704,657)
RSVA - Retail Transmission Network Charge	1584	7,422,887	128,255	7,551,141
RSVA - Retail Transmission Connection Charge	1586	(1,899,873)	(32,606)	(1,932,479)
RSVA - Power	1588	2,336,127	41,482	2,377,609
RSVA - Global Adjustment	1589	(6,731,890)	(126,571)	(6,858,461)
Disposition and Recovery of Regulatory Balances (2018)	1595	146,122	(123,452)	22,670
Totals for Group 1 accounts		4,282,722	(59,031)	4,223,692

The balance of each of the Group 1 accounts approved for disposition shall be transferred to the applicable principal and interest carrying charge sub-accounts of Account 1595. Such transfer shall be pursuant to the requirements specified in the *Accounting Procedures Handbook for Electricity Distributors*.¹⁴ The date of the transfer must be the same as the effective date for the associated rates, which is generally the start of the rate year.

The OEB approves these balances to be disposed through final rate riders, charges, or payments, as calculated in the DVA continuity schedule. The final rate riders, charges, and payments, as applicable, relating to Group 1 balances excluding GA and CBR

¹⁴ Article 220, Account Descriptions, Accounting Procedures Handbook for Electricity Distributors, effective January 1, 2012

Class B variance accounts will be in effect over a two-year period from January 1, 2023 to December 31, 2024. The final rate riders, charges, and payments as applicable, relating to GA and CBR Class B variance accounts will be in effect over a one-year period from January 1, 2023 to December 31, 2023.¹⁵

¹⁵ DVA Workform Tab 6.1 GA, Tab 6.1a GA Allocation, Tab 6.2 CBR B, Tab 6.2a CBR B_Allocation and Tab 7 Rate Rider Calculations

8 LOST REVENUE ADJUSTMENT MECHANISM VARIANCE ACCOUNT

The OEB has historically utilized a Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) to capture a distributor's revenue implications resulting from differences between actual and forecast conservation and demand management (CDM) savings included in its last OEB-approved load forecast. The use of the LRAMVA is no longer the default approach for CDM activities.¹⁶

Distributors delivered CDM programs to their customers through the Conservation First Framework (CFF) that began on January 1, 2015 until March 20, 2019, when the CFF was revoked.¹⁷

Distributors filing an application for 2023 rates are required to seek disposition of all outstanding LRAMVA balances related to program savings for CFF programs or other conservation programs they delivered unless they do not have complete information on eligible program savings.¹⁸

Hydro Ottawa has applied to dispose of its LRAMVA debit balance of \$2,048,767. The balance consists of lost revenues from 2017 to 2020 from conservation and demand management (CDM) programs delivered during the period from 2015 to 2020 and carrying charges projected to December 31, 2022.¹⁹

Hydro Ottawa is requesting disposition to be recovered uniformly over 3 years for all classes except for the Street Lighting rate class. For the Street Lighting rate class, Hydro Ottawa is requesting disposition of the 2017 LRAMVA account balance in 2023 and the 2018-2020 LRAMVA account balances uniformly in 2024 and 2025. The proposed disposition approach results in a more levelized rate impact for the Street Lighting class over the remainder years of the rate term.

The actual conservation savings claimed by Hydro Ottawa under the CFF were validated with reports from the Independent Electricity System Operator (IESO), project level savings files, or both.

¹⁶ Conservation and Demand Management Guidelines for Electricity Distributors, December 20, 2021, chapter 8.

¹⁷ On March 20, 2019 the Minister of Energy, Northern Development and Mines issued separate Directives to the OEB and the IESO.

¹⁸ Chapter 3 Filing Requirements, section 3.2.6.1

¹⁹ During the proceeding, Hydro Ottawa updated its LRAMVA balance to reflect the threshold values per the 2016-2020 Approved Settlement Agreement. This resulted in an increase of \$21 and a revised LRAMVA balance of \$2,048,767

Actual conservation savings were compared against Hydro Ottawa's forecasted conservation savings included in its last OEB-approved load forecast²⁰ for Residential and General Service < 50 kW classes as follows:

- 47,201,000 kWh for 2017
- 65,306,000 kWh for 2018
- 81,764,000 kWh for 2019
- 98,221,000 kWh for 2020

Distributors are also eligible under the LRAM for persisting impacts of conservation programs until their next rebasing. The OEB provided direction for distributors to seek approval of LRAM-eligible amounts for 2023 onwards on a prospective basis, and a rate rider in the corresponding rate year, to address amounts that would otherwise be recorded in the LRAMVA for all years until their next rebasing application.²¹

Hydro Ottawa is not seeking disposition of the 2021 or 2022 LRAMVA amounts, or prospective disposition for 2023 onwards from persisting savings of completed CDM programs at this time. The 2021-2025 Approved Settlement Agreement²² includes a clause stating that Hydro Ottawa intends to include CDM savings from ongoing IESO programs (and potentially other provincial or federal programs) impacting 2021 and beyond in the LRAMVA account until its next rebasing period. Hydro Ottawa confirmed during the current proceeding that this is still its intent.²³

The 2021-2025 Approved Settlement Agreement further notes that any updated OEB CDM guidelines will not preclude Hydro Ottawa from bringing forward an LRAMVA claim requesting disposition of its LRAMVA for the impact of both known and unknown CDM initiatives. However, this settlement agreement should not be construed as agreement to the disposition of such a claim.

Findings

The OEB finds that Hydro Ottawa's LRAMVA balance has been calculated in accordance with the OEB's CDM-related guidelines and updated LRAMVA policy. The OEB approves the disposition of Hydro Ottawa's LRAMVA debit balance of \$2,048,767, as set out in Table 8.1 below.

²⁰ Hydro Ottawa Limited, [2016-2020 Custom Incentive Rate-Setting Approved Settlement Proposal](#), EB-2015-0004 (December 7, 2015), p. 57 & 58

²¹ [Guidance on Prospective Lost Revenue Adjustment Mechanism \(LRAM\) Amounts – 2023 Rates](#), June 16, 2022

²² Hydro Ottawa Limited, [2021-2025 Custom Incentive Rate-Setting Approved Settlement Proposal](#), EB-2019-0261 (September 18, 2020), p. 24

²³ IRR OEB-4

Table 8.1 LRAMVA Balance for Disposition

Account Name	Account Number	Actual CDM Savings (\$) A	Forecasted CDM Savings (\$) B	Carrying Charges (\$) C	Total Claim (\$) D=(A-B)+C
LRAMVA	1568	15,513,323	13,643,471	178,915	2,048,767

The OEB accepts Hydro Ottawa's request to dispose of its LRAMVA balance from 2017 to 2020 on a final basis over a three year period including the specific allocation proposal for the Street Lighting class. The OEB notes that the approach to the LRAMVA recovery from the Street Lighting class results in more reasonable bill impacts.

The OEB also accepts Hydro Ottawa's intent to keep the LRAMVA account open until rebasing and to not seek disposition of 2021 or 2022 LRAMVA amounts or seek prospective disposition within this proceeding. This approach is in accordance with the Settlement Agreement²⁴ which states that "any updated OEB guidelines will not preclude Hydro Ottawa from bringing forward an LRAMVA claim requesting disposition of its LRAMVA for the impact of both known and unknown CDM initiatives." The OEB also notes that, even for the 2021 and 2022 years, an LRAMVA claim by Hydro Ottawa may require supporting information on CDM results during these years that is not yet available.

However, the Settlement Agreement also states that "this should not be construed as agreement to the disposition of such account." As such, the OEB takes no position at this time on the methodology and substance of any potential future LRAMVA claims that may include savings from ongoing IESO programs impacting 2021 and beyond. The OEB will address the final disposition of outstanding balances in Hydro Ottawa's LRAMVA account in its next rebasing application.

²⁴ Hydro Ottawa Limited, [2021-2025 Custom Incentive Rate-Setting Approved Settlement Proposal](#), EB-2019-0261 (September 18, 2020), p. 24

9 RETAIL TRANSMISSION SERVICE RATES

Hydro Ottawa is transmission-connected and partially embedded within Hydro One Networks Inc.'s (Hydro One's) distribution system. Accordingly, it pays both the Uniform Transmission Rates (UTRs) and Hydro One's sub-transmission host retail transmission service rates (RTSRs) for transmission service.

To recover its costs of transmission services, Hydro Ottawa requests approval to adjust the RTSRs that it charges its customers in accordance with the UTRs and Hydro One's sub-transmission host-RTSRs currently in effect.

Findings

Hydro Ottawa's proposed adjustment to its RTSRs is approved. The RTSRs were adjusted based on the current OEB-approved UTRs and sub-transmission host-RTSRs.²⁵

UTRs and host-RTSRs are typically approved annually by the OEB. In the event that new UTRs and host-RTSRs take effect during Hydro Ottawa's 2023 rate year, any resulting differences (from the prior-approved UTRs and host-RTSRs) are to be captured in Retail Settlement Variance Accounts 1584 (Retail Transmission Network Charge) and 1586 (Retail Transmission Connection Charge).

²⁵ EB-2022-0084, Decision and Order, April 7, 2022. EB-2021-0032, Decision and Rate Order, December 14, 2021.

10 LOW VOLTAGE CHARGES

Hydro Ottawa pays charges to Hydro One for a number of shared distribution stations, specific lines and shared lines.

The 2021-2025 Approved Settlement Agreement requires that Hydro Ottawa's Low Voltage (LV) rates are to be updated annually. Hydro Ottawa has used the approved 2023 LV expense forecast of \$353,687 in the calculations of the LV changes for the customer classes. Hydro Ottawa has allocated the charges to the customer classes based on the class percentage of retail transmission connection dollars using the 2022 OEB-approved rates.

The resulting LV charges are shown in the table below.

Table 10.1: Proposed LV Charges

Class	Per	Current 2022 LV Charge	Proposed 2023 LV Charge
Residential	kWh	\$0.00005	\$0.00005
General Service < 50 kW	kWh	\$0.00005	\$0.00005
General Service 50 to 1,499 kW	kW	\$0.01989	\$0.02011
General Service 1,500 to 4,000 kW	kW	\$0.02126	\$0.02149
Large Use (> 5,000 kW)	kW	\$0.02394	\$0.02420
Unmetered Scattered Load	kWh	\$0.00005	\$0.00005
Sentinel Lighting	kW	\$0.01478	\$0.01494
Street Lighting	kW	\$0.01509	\$0.01525

Findings

The updated LV charges shown in Table 10.1, included in Hydro Ottawa's 2023 application, have been calculated and allocated in accordance with the approved methodology and are approved.

11 RETAIL SERVICE CHARGES

Retail Service Charges (RSCs) are levied to recover the cost of the services provided by a distributor to retailers or customers for supply of competitive electricity through retailer contracts, in accordance with the OEB's Retail Settlement Code.

In accordance with the 2021-2025 Approved Settlement Agreement, Hydro Ottawa proposed to adopt the OEB's generic RSCs. For the subject application, Hydro Ottawa proposed the OEB's generic 2023 RSCs effective January 1, 2023.²⁶ The RSCs for 2023 are set out in the table below.

Table 11.1 – Retail Service Charges

	2023 Proposed
Monthly Fixed Charge, per retailer	\$44.67
Standard Charge, per retailer	\$111.66
Monthly Variable Charge, per customer, per retailer	\$1.11
Distributor Consolidated Billing Charge, per customer, per retailer	\$0.66
Retailer Consolidated Billing Credit, per customer, per retailer	\$(0.66)
Service Transaction Requests, per process	\$1.11
Service Transaction Requests, per request	\$0.56
Electronic Business Transaction, up to twice per year	\$0.00
Electronic Business Transaction, more than twice a year, per request	\$4.47

Findings

The OEB approves the 2023 RSCs, which represent the generic RSCs set out in the OEB's November 3, 2022 Decision and Order.

²⁶ EB-2022-0220, Decision and Order, November 3, 2022.

12 SPECIFIC SERVICE CHARGES

Specific Service Charges (SSCs) apply to services that are over and above Hydro Ottawa's standard level of service offerings and may result from a customer's action or inaction. The revenue from these charges offsets the total revenue requirement.

The 2021-2025 Approved Settlement Agreement identified a list of SSCs that account for the majority of the SSCs that would be increased per the CPEF, excluding the G factor, as part of this application. All other service charges will remain at the 2022 approved rates.

Table 12.1 Summary of Revised Specific Service Charges

	2022 Current	2023 Proposed
Customer Administration		
Arrears Certificate	\$16.00	\$17.00
Easement Certificate for Unregistered Easements	\$26.00	\$27.00
Duplicate Invoices for Previous Billing	\$6.00	\$6.00
Special Billing Service, per hour	\$126.00	\$130.00
Credit Reference/Credit Check (+ credit agency costs)	\$16.00	\$17.00
Unprocessed Payment Charge (+ bank charges)	\$26.00	\$27.00
Account Set Up/Change of Occupancy Charge	\$26.00	\$27.00
Interval Meter - Field Reading	\$323.00	\$334.00
High Bill Investigation - If Billing is Correct	\$243.00	\$251.00
Non-Payment of Account		
Reconnect at Meter - Regular Hours	\$69.00	\$71.00
Reconnect at Meter - After Regular Hours	\$103.00	\$107.00
Reconnect at Pole - Regular Hours	\$258.00	\$266.00
Reconnect at Pole - After Regular Hours	\$435.00	\$449.00

	2022 Current	2023 Proposed
Other		
Temporary Service - Install and Remove ("TS-I&R") - Overhead - no transformer	\$906.00	\$936.00
TS-I&R - Underground - no transformer	\$1,314.00	\$1,357.00
TS-I&R - Overhead - with transformer	\$3,231.00	\$3,336.00
Specific Charge to Access Power Poles - Wireline	\$44.50	\$36.05
ERF Administration Charge Without Account Set Up	\$146.00	\$151.00

Hydro Ottawa adopted the OEB's 2023 generic wireline pole attachment charge of \$36.05 per attached, per year, per pole.

In addition, as per the 2021-2025 Approved Settlement Agreement, Hydro Ottawa has adjusted the Dry Core Transformer Charges to reflect any related changes in the Regulated Price Plan and Hydro One rates. Table 12.2 below lists Hydro Ottawa's updated 2023 Dry Core Transformer charges.

Table 12.2 Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates			\$ 6.6820	\$ 0.0989		\$ 5.6425	
25 KVA 1 PH, 1.2kV BIL	150	900	\$ 1.07	\$ 8.99	\$ 10.06	\$ 0.91	\$ 10.97
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$ 1.43	\$ 11.98	\$ 13.42	\$ 1.21	\$ 14.62
50 KVA 1 PH, 1.2kV BIL	250	1600	\$ 1.83	\$ 15.08	\$ 16.90	\$ 1.54	\$ 18.44
75 KVA 1 PH, 1.2kV BIL	350	1900	\$ 2.43	\$ 20.78	\$ 23.21	\$ 2.06	\$ 25.27
100 KVA 1 PH, 1.2kV BIL	400	2600	\$ 2.93	\$ 24.16	\$ 27.10	\$ 2.48	\$ 29.57
112.5 KVA 1 PH, 1.2kV BIL	447	2936	\$ 3.29	\$ 27.03	\$ 30.32	\$ 2.78	\$ 33.10
*150 KVA 1 PH, 1.2kV BIL	525	3500	\$ 3.88	\$ 31.80	\$ 35.68	\$ 3.28	\$ 38.96
167 KVA 1 PH, 1.2kV BIL	650	4400	\$ 4.83	\$ 39.43	\$ 44.26	\$ 4.08	\$ 48.34
175 KVA 1PH, 1.2kV BIL	665	4496	\$ 4.94	\$ 40.33	\$ 45.28	\$ 4.17	\$ 49.45
*200 KVA 1 PH, 1.2kV BIL	696	4700	\$ 5.17	\$ 42.21	\$ 47.38	\$ 4.37	\$ 51.74
*225 KVA 1 PH, 1.2kV BIL	748	5050	\$ 5.56	\$ 45.36	\$ 50.92	\$ 4.69	\$ 55.61
250 KVA 1 PH, 1.2kV BIL	800	5400	\$ 5.94	\$ 48.51	\$ 54.46	\$ 5.02	\$ 59.47
333 KVA 1PH 1.2kV BIL	1000	6600	\$ 7.37	\$ 60.50	\$ 67.87	\$ 6.23	\$ 74.10
*10 KVA 3 PH, 1.2kV BIL	83	400	\$ 0.56	\$ 4.88	\$ 5.44	\$ 0.47	\$ 5.91
*15 KVA 3 PH, 1.2kV BIL	125	650	\$ 0.86	\$ 7.39	\$ 8.25	\$ 0.73	\$ 8.98
*30 KVA 3PH, 1.2kV BIL	250	1300	\$ 1.72	\$ 14.79	\$ 16.51	\$ 1.45	\$ 17.96
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$ 2.15	\$ 17.98	\$ 20.12	\$ 1.81	\$ 21.94
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$ 2.86	\$ 23.97	\$ 26.83	\$ 2.42	\$ 29.25
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$ 4.22	\$ 35.76	\$ 39.98	\$ 3.57	\$ 43.55
125 KVA 3PH, 1.2kV BIL	633	3767	\$ 4.52	\$ 37.90	\$ 42.42	\$ 3.82	\$ 46.24
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$ 5.12	\$ 42.23	\$ 47.35	\$ 4.32	\$ 51.67
*175 KVA 3PH, 1.2kV BIL	766	4767	\$ 5.54	\$ 46.06	\$ 51.61	\$ 4.68	\$ 56.29
*200 KVA 3PH, 1.2kV BIL	833	5033	\$ 5.98	\$ 49.95	\$ 55.92	\$ 5.05	\$ 60.97
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$ 6.41	\$ 53.83	\$ 60.24	\$ 5.41	\$ 65.65
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$ 7.77	\$ 65.62	\$ 73.39	\$ 6.56	\$ 79.95
*450 KVA 3PH, 1.2kV BIL	2075	7275	\$ 13.00	\$ 119.36	\$ 132.36	\$ 10.98	\$ 143.34
*500 KVA 3 PH, 95kV BIL	2400	7600	\$ 14.75	\$ 137.27	\$ 152.01	\$ 12.45	\$ 164.47
*750 KVA 3 PH, 95kV BIL	3000	12000	\$ 19.33	\$ 173.99	\$ 193.32	\$ 16.32	\$ 209.64
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$ 21.69	\$ 196.61	\$ 218.30	\$ 18.32	\$ 236.62
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$ 28.99	\$ 260.99	\$ 289.98	\$ 24.48	\$ 314.46
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$ 34.58	\$ 312.61	\$ 347.18	\$ 29.20	\$ 376.38
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$ 41.52	\$ 376.02	\$ 417.54	\$ 35.06	\$ 452.60
*3000 KVA 3PH, 95kV BIL	7700	29000	\$ 48.97	\$ 444.84	\$ 493.81	\$ 41.35	\$ 535.16
*3750 KVA 3PH, 95kV BIL	9500	35000	\$ 60.13	\$ 548.08	\$ 608.22	\$ 50.78	\$ 658.99
*5000 KVA 3PH, 95kV BIL	11000	39000	\$ 69.08	\$ 633.15	\$ 702.24	\$ 58.34	\$ 760.57

Findings

The OEB approves the 2023 SSCs including the Dry Core Transformer charges in accordance with the 2021-2025 Approved Settlement Agreement, and as updated in this proceeding. The OEB notes that impacts on revenues arising from revised charges have been included in Hydro Ottawa's proposed rates in accordance with the 2021-2025 Settlement Agreement.

13 IMPLEMENTATION

This Decision and Rate Order is accompanied by a Deferral and Variance Account workform, applicable supporting models, and a Tariff of Rates and Charges (Schedule A).

Model entries were reviewed to ensure that they are in accordance with the OEB's decision and order issued on November 19, 2020. The rate models were adjusted, where applicable, to correct any discrepancies. The Tariff Schedule and Bill Impacts Model incorporates the rates set out in the following table.

Table 13.1: Regulatory Charges

Rate	per kWh
Rural or Remote Electricity Rate Protection (RRRP)	\$0.0005
Wholesale Market Service (WMS) billed to Class A and B Customers	\$0.0030
Capacity Based Recovery (CBR) billed to Class B Customers	\$0.0004

Each of these rates is a component of the “Regulatory Charge” on a customer’s bill, established annually by the OEB through a separate, generic order. The RRRP, WMS and CBR rates were set by the OEB on December 16, 2021.²⁷

The Smart Metering Entity Charge is a component of the “Distribution Charge” on a customer’s bill, established by the OEB through a separate order. The Smart Metering Entity Charge was set by the OEB at \$0.42 on September 8, 2022.²⁸

²⁷ EB-2021-0300, Decision and Order, December 16, 2021.

²⁸ EB-2022-0137, Decision and Order, September 8, 2022

14 ORDER

THE ONTARIO ENERGY BOARD ORDERS THAT

1. The Tariff of Rates and Charges set out in Schedule A of this Decision and Rate Order is approved effective January 1, 2023 for electricity consumed or estimated to have been consumed on and after such date. Hydro Ottawa Limited shall notify its customers of the rate changes no later than the delivery of the first bill reflecting the new rates.

DATED at Toronto, December 8, 2022

ONTARIO ENERGY BOARD

Nancy Marconi
Registrar

SCHEDULE A
DECISION AND RATE ORDER
HYDRO OTTAWA LIMITED
TARIFF OF RATES AND CHARGES
EB-2022-0042
DECEMBER 8, 2022

Hydro Ottawa Limited
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2023
This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2022-0042

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	32.14
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2025	\$	0.25
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.42
Low Voltage Service Rate	\$/kWh	0.00005
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kWh	0.0008
Rate Rider for Disposition of Capacity Based Recovery Account Applicable only for Class B Customers - effective until December 31, 2023	\$/kWh	(0.0001)
Rate Rider for Disposition of Global Adjustment Account (2023) - Applicable only for Non-RPP Customers - effective until December 31, 2023	\$/kWh	(0.0029)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0104
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0057

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2023
This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2022-0042

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	21.84
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.42
Distribution Volumetric Rate	\$/kWh	0.0283
Low Voltage Service Rate	\$/kWh	0.00005
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kWh	0.0008
Rate Rider for Disposition of Capacity Based Recovery Account Applicable only for Class B Customers - effective until December 31, 2023	\$/kWh	(0.0001)
Rate Rider for Disposition of Global Adjustment Account (2023) - Applicable only for Non-RPP Customers - effective until December 31, 2023	\$/kWh	(0.0029)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2025	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0097
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0055

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2023
This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2022-0042

GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	200.00
Distribution Volumetric Rate	\$/kW	5.9845
Low Voltage Service Rate	\$/kW	0.02011
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kW	0.1523
Rate Rider for Disposition of Capacity Based Recovery Account Applicable only for Class B Customers - effective until December 31, 2023	\$/kWh	(0.0001)
Rate Rider for Disposition of Deferral/Variance Accounts Applicable only for Non-Wholesale Market Participants - effective until December 31, 2024	\$/kW	0.1966
Rate Rider for Disposition of Global Adjustment Account (2023) - Applicable only for Non-RPP Customers - effective until December 31, 2023	\$/kWh	(0.0029)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2025	\$/kW	(0.2477)
Retail Transmission Rate - Network Service Rate	\$/kW	3.9813
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.2255

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2023
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EB-2022-0042

GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 1,500 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	4193.93
Distribution Volumetric Rate	\$/kW	5.5121
Low Voltage Service Rate	\$/kW	0.02149
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kW	0.3938
Rate Rider for Disposition of Capacity Based Recovery Account Applicable only for Class B Customers - effective until December 31, 2023	\$/kWh	(0.0001)
Rate Rider for Disposition of Global Adjustment Account (2023) - Applicable only for Non-RPP Customers - effective until December 31, 2023	\$/kWh	(0.0029)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2025	\$/kW	0.2021
Retail Transmission Rate - Network Service Rate	\$/kW	4.1337
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.3786

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2023
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EB-2022-0042

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of WMS - Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

If included in the following listing of monthly rates and charges, the rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

Note: A Customer shall be billed for Demand based on the greater of the measured kilowatts or ninety percent (90%) of the measured kilovolt-amperes.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	15231.32
Distribution Volumetric Rate	\$/kW	5.431
Low Voltage Service Rate	\$/kW	0.0242
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kW	0.4832
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2025	\$/kW	0.2011
Retail Transmission Rate - Network Service Rate	\$/kW	4.5825
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.6785

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2023
This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2022-0042

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	6.24
Distribution Volumetric Rate	\$/kWh	0.0297
Low Voltage Service Rate	\$/kWh	0.00005
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kWh	0.0008
Rate Rider for Disposition of Capacity Based Recovery Account Applicable only for Class B Customers - effective until December 31, 2023	\$/kWh	(0.0001)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0097
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0055

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2023
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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component - Approved on an Interim Basis

Service Charge	\$	171.83
General Service 50 TO 1,499 kW customer	\$/kW	2.2930
General Service 1,500 TO 4,999 kW customer	\$/kW	2.1033
General Service Large User kW customer	\$/kW	2.3341

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SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	5.16
Distribution Volumetric Rate	\$/kW	24.2011
Low Voltage Service Rate	\$/kW	0.01494
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kW	0.3047
Rate Rider for Disposition of Capacity Based Recovery Account Applicable only for Class B Customers - effective until December 31, 2023	\$/kWh	(0.0001)
Retail Transmission Rate - Network Service Rate	\$/kW	2.9389
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6534

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	1.05
Distribution Volumetric Rate	\$/kW	7.3273
Low Voltage Service Rate	\$/kW	0.01525
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2024	\$/kW	0.3017
Rate Rider for Disposition of Capacity Based Recovery Account Applicable only for Class B Customers - effective until December 31, 2023	\$/kWh	(0.0001)
Rate Rider for Disposition of Global Adjustment Account (2023) - Applicable only for Non-RPP Customers - effective until December 31, 2023	\$/kWh	(0.0029)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery - effective until December 31, 2023	\$/kW	1.9737
Retail Transmission Rate - Network Service Rate	\$/kW	2.9539
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6878

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Ottawa Limited
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NET-METERING SERVICE CLASSIFICATION

This classification applies to an eligible electricity generation facility as defined in O. Reg. 541/05. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	15
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microFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	15.00
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FIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's FIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	80.00
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HCI, RESOP, OTHER ENERGY RESOURCE SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's HCI, RESOP and Other Energy Resource programs and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	330.00
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ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.45)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1)

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SPECIFIC SERVICE CHARGES**APPLICATION**

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Customer Administration

Arrears Certificate	\$	17.00
Easement Certificate for Unregistered Easements	\$	27.00
Duplicate invoices for previous billing	\$	6.00
Special billing service per hour (min 1 hour, 15 min incremental billing thereafter)	\$	130.00
Credit reference/credit check (plus credit agency costs)	\$	17.00
Unprocessed payment charge (plus bank charges)	\$	27.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	27.00
Interval meter - field reading	\$	334.00
High bill investigation - if billing is correct	\$	251.00

Non-Payment of Account

Late payment - per month (effective annual rate 19.56% per annum or 0.04896% compounded daily rate)	%	1.50
Reconnection at meter - during regular hours	\$	71.00
Reconnection at meter - after regular hours	\$	107.00
Reconnection at pole - during regular hours	\$	266.00
Reconnection at pole - after regular hours	\$	449.00

Other

Temporary service - install & remove - overhead - no transformer	\$	936.00
Temporary service - install & remove - underground - no transformer	\$	1357.00
Temporary service - install & remove - overhead - with transformer	\$	3336.00
Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	36.05
Dry core transformer distribution charge		Per Attached Table
Energy resource facility administration charge (account set-up charge separately if applicable)	\$	151.00

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RETAIL SERVICE CHARGES (if applicable)

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	111.66
Monthly fixed charge, per retailer	\$	44.67
Monthly variable charge, per customer, per retailer	\$/cust.	1.11
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.66
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	-0.66
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.56
Processing fee, per request, applied to the requesting party	\$	1.11
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.47
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per the Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.23

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0338
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0152
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0234
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0051

TARIFF OF RATES AND CHARGES

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Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates			\$ 6.6820	\$ 0.0989		\$ 5.6425	
25 KVA 1 PH, 1.2kV BIL	150	900	\$ 1.07	\$ 8.99	\$ 10.06	\$ 0.91	\$ 10.97
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$ 1.43	\$ 11.98	\$ 13.42	\$ 1.21	\$ 14.62
50 KVA 1 PH, 1.2kV BIL	250	1600	\$ 1.83	\$ 15.08	\$ 16.90	\$ 1.54	\$ 18.44
75 KVA 1 PH, 1.2kV BIL	350	1900	\$ 2.43	\$ 20.78	\$ 23.21	\$ 2.06	\$ 25.27
100 KVA 1 PH, 1.2kV BIL	400	2600	\$ 2.93	\$ 24.16	\$ 27.10	\$ 2.48	\$ 29.57
112.5 kVA 1 PH, 1.2kV BIL	447	2936	\$ 3.29	\$ 27.03	\$ 30.32	\$ 2.78	\$ 33.10
*150 KVA 1 PH, 1.2kV BIL	525	3500	\$ 3.88	\$ 31.80	\$ 35.68	\$ 3.28	\$ 38.96
167 KVA 1 PH, 1.2kV BIL	650	4400	\$ 4.83	\$ 39.43	\$ 44.26	\$ 4.08	\$ 48.34
175 KVA 1PH, 1.2kV BIL	665	4496	\$ 4.94	\$ 40.33	\$ 45.28	\$ 4.17	\$ 49.45
*200 KVA 1 PH, 1.2kV BIL	696	4700	\$ 5.17	\$ 42.21	\$ 47.38	\$ 4.37	\$ 51.74
*225 KVA 1 PH, 1.2kV BIL	748	5050	\$ 5.56	\$ 45.36	\$ 50.92	\$ 4.69	\$ 55.61
250 KVA 1 PH, 1.2kV BIL	800	5400	\$ 5.94	\$ 48.51	\$ 54.46	\$ 5.02	\$ 59.47
333 KVA 1PH 1.2kV BIL	1000	6600	\$ 7.37	\$ 60.50	\$ 67.87	\$ 6.23	\$ 74.10
*10 KVA 3 PH, 1.2kV BIL	83	400	\$ 0.56	\$ 4.88	\$ 5.44	\$ 0.47	\$ 5.91
*15 KVA 3 PH, 1.2kV BIL	125	650	\$ 0.86	\$ 7.39	\$ 8.25	\$ 0.73	\$ 8.98
*30 KVA 3PH, 1.2kV BIL	250	1300	\$ 1.72	\$ 14.79	\$ 16.51	\$ 1.45	\$ 17.96
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$ 2.15	\$ 17.98	\$ 20.12	\$ 1.81	\$ 21.94
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$ 2.86	\$ 23.97	\$ 26.83	\$ 2.42	\$ 29.25
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$ 4.22	\$ 35.76	\$ 39.98	\$ 3.57	\$ 43.55
125 KVA 3PH, 1.2kV BIL	633	3767	\$ 4.52	\$ 37.90	\$ 42.42	\$ 3.82	\$ 46.24
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$ 5.12	\$ 42.23	\$ 47.35	\$ 4.32	\$ 51.67
*175 KVA 3PH, 1.2kV BIL	766	4767	\$ 5.54	\$ 46.06	\$ 51.61	\$ 4.68	\$ 56.29
*200 KVA 3PH, 1.2kV BIL	833	5033	\$ 5.98	\$ 49.95	\$ 55.92	\$ 5.05	\$ 60.97
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$ 6.41	\$ 53.83	\$ 60.24	\$ 5.41	\$ 65.65
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$ 7.77	\$ 65.62	\$ 73.39	\$ 6.56	\$ 79.95
*450 KVA 3PH, 1.2kV BIL	2075	7275	\$ 13.00	\$ 119.36	\$ 132.36	\$ 10.98	\$ 143.34
*500 KVA 3 PH, 95kV BIL	2400	7600	\$ 14.75	\$ 137.27	\$ 152.01	\$ 12.45	\$ 164.47
*750 KVA 3 PH, 95kV BIL	3000	12000	\$ 19.33	\$ 173.99	\$ 193.32	\$ 16.32	\$ 209.64
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$ 21.69	\$ 196.61	\$ 218.30	\$ 18.32	\$ 236.62
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$ 28.99	\$ 260.99	\$ 289.98	\$ 24.48	\$ 314.46
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$ 34.58	\$ 312.61	\$ 347.18	\$ 29.20	\$ 376.38
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$ 41.52	\$ 376.02	\$ 417.54	\$ 35.06	\$ 452.60
*3000 KVA 3PH, 95kV BIL	7700	29000	\$ 48.97	\$ 444.84	\$ 493.81	\$ 41.35	\$ 535.16
*3750 KVA 3PH, 95kV BIL	9500	35000	\$ 60.13	\$ 548.08	\$ 608.22	\$ 50.78	\$ 658.99
*5000 KVA 3PH, 95kV BIL	11000	39000	\$ 69.08	\$ 633.15	\$ 702.24	\$ 58.34	\$ 760.57

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

*For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard