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DECISION AND RATE ORDER

EB-2019-0046

HYDRO OTTAWA LIMITED

Application for an order approving just and reasonable rates and other charges for electricity distribution to be effective January 1, 2020.

By Delegation, Before: Theodore Antonopoulos

December 17, 2019



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1 INTRODUCTION AND SUMMARY

Through this Decision and Rate Order, the Ontario Energy Board (OEB) approves the 2020 Custom Incentive Rate-setting (Custom IR) – Year 5 Update application filed by Hydro Ottawa Limited (Hydro Ottawa) on August 12, 2019, as amended during the course of the proceeding.

Hydro Ottawa serves approximately 335,000 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 2016 rates, Hydro Ottawa selected the Custom IR option that has a five-year term. The OEB accepted a partial settlement on December 22, 2015 (the 2015 Settlement Agreement) that included a five-year Custom IR framework which covered the years 2016 to 2020.¹ As part of that proceeding, the OEB issued a final rate order establishing the rates for 2016. Rates for subsequent years were to be adjusted mechanistically through a custom price cap 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. This is referred to in section four of this Decision and Rate Order as the Base Rate Adjustment.

On February 25, 2016, the OEB issued a Decision and Rate Order on the Pole Attachment Charge (Pole Attachment Decision).² The OEB approved a pole attachment charge of \$53 per pole per year effective January 1, 2016. The 2015 Settlement Agreement provided that, in the event that the final approved pole attachment revenues were different than proposed, the distribution rates would be adjusted by an equal amount so that the service revenue requirement for each year was unchanged.

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

- Capital spending and operating expenses have been set for a five-year period (2016 to 2020), pursuant to specific adjustments as described above
- An asymmetrical Earnings Sharing Mechanism (ESM) with no dead band
- An asymmetrical Revenue Requirement Differential Variance Account (RRDVA) to track the cumulative revenue requirement impacts arising from variances in capital forecasts

¹ Decision and Rate Order, EB-2015-0004, December 22, 2015

² Decision and Rate Order on Pole Attachment Charge, EB-2015-0004, February 25, 2016

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- An efficiency adjustment if Hydro Ottawa's efficiency ranking declines during the Custom IR term
 - No adjustment to loss factors and the Working Capital Allowance during the Custom IR term
 - Cost of Capital for 2019 and 2020 rates are adjusted as per the 2015 Settlement Agreement
 - Annual updates to Low Voltage and Retail Transmission Service Rates

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 total monthly bill increase, before taxes, of \$1.36 for a residential customer consuming 750 kWh, effective January 1, 2020.

Hydro Ottawa has also applied to change the composition of its distribution service rates. Residential distribution service rates currently include a fixed monthly charge and a variable usage charge. In 2015, the OEB issued a policy to transition these rates to a fully fixed structure over a four-year period beginning in 2016.³ As part of the approved Custom IR, the parties agreed that the residential distribution service rates would transition over a five-year period and be fully fixed by 2020. Accordingly, the fixed monthly charge for 2020 has been adjusted upward in this Decision and Rate Order by more than the mechanistic adjustment alone. The variable usage rate is commensurately lower. This policy change does not affect the total revenue distributors collect from residential customers.

³ OEB Policy - "A New Distribution Rate Design for Residential Electricity Customers", EB-2012-0410, April 2, 2015

2 THE PROCESS

The OEB follows a streamlined process for Custom IR update applications. Applications of this nature may be decided by a panel of Board Members 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 *Ontario Energy Board Act, 1998* (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 approved Custom IR application. This includes but is not limited to updates or adjustments defined in the OEB's decision on the original Custom IR application.

Hydro Ottawa filed its application on August 12, 2019, under section 78 of the OEB Act and in accordance with the Filing Requirements.⁴ 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.

⁴ Filing Requirements For Electricity Distribution Rate Applications, issued July 12, 2018 and Addendum to Filing Requirements For Electricity Distribution Rate Applications - 2020 Rate Applications, issued July 15, 2019

3 ORGANIZATION OF THE DECISION

In this Decision and Rate Order, the OEB addresses the following issues, and provides reasons for approving or denying Hydro Ottawa's proposals relating to each of them:

- Base Rate Adjustment
- Low Voltage Charges
- Retail Transmission Service Rates
- Group 1 Deferral and Variance Accounts
- Cost Allocation
- Residential Rate Design
- Retail Service Charges
- Specific Service Charges
- Y-factor

The last section addresses the steps to implement the final rates that flow from this Decision and Rate Order.

4 BASE RATE ADJUSTMENT

Hydro Ottawa's base rates are made up of a monthly fixed charge and a monthly variable charge. Together, these charges recover Hydro Ottawa's OM&A and capital costs. As part of the 2015 Settlement Agreement, the base for the five-year custom price cap adjustment formula for recoverable OM&A was set at \$83,105,564 for 2016. For the 2017 and 2018 period, OM&A increased annually by a 1.91% escalator on a compounded basis. For the 2019 and 2020 period, OM&A was to increase annually by a 1.55% escalator on a compounded basis.

Hydro Ottawa adjusted the 2020 escalator in this application per the 2015 Settlement Agreement. The 2020 escalator will remain the same as the 2019 escalator updated in 2019. The escalator was determined by starting with the 2019 OEB published labour and non-labour inflation rates of 1.9% and 1.4% respectively. Using the agreed weighting factors of 60% labour and 40% non-labour, the weighted average inflation rate is calculated as 1.71%. The inflation rate is then adjusted by a +0.14% growth factor, and further adjusted by a -0.3% productivity/stretch factor. Per the 2015 Settlement Agreement, the growth factor and productivity/stretch factor remain set for the four-year period of 2017 to 2020. Hydro Ottawa proposed to increase the 2020 OM&A by a resulting escalator of 1.55%.

With respect to cost of capital, the parties agreed in the 2015 Settlement Agreement that the 2020 short-term debt, long-term debt, and return on equity would be re-set using the cost of capital parameters for 2019.⁵ Hydro Ottawa has updated the long-term debt rate, short-term debt rate and return on equity for 2020 based on the OEB's 2019 parameters.

In addition, Hydro Ottawa adjusted the base revenues in accordance with the Pole Attachment Decision, described above.

The RRDVA was established to track revenue requirement impacts resulting from any underspending in Hydro Ottawa's three capital spending categories (e.g. System Access, System Renewal/System Service, and General Plant). In this proceeding, Hydro Ottawa did not report any balance in the RRDVA related to additions as Hydro Ottawa spent more than planned in its capital spending categories from 2016 to 2018.⁶

The purpose of the ESM variance account is to refund ratepayers 50% of any earnings above Hydro Ottawa's deemed regulated return on equity (ROE). Hydro Ottawa

⁵ The approved Settlement Agreement contemplated no further updates in order to incorporate the 2020 parameters.

⁶ Exhibit 9, Tab 1, Schedule 1, pp. 9-10

achieved 0.88% higher return in 2017 than the deemed ROE. Based on 2017 deemed equity of \$357,578,000, Hydro Ottawa recorded 50% of the stated earnings (including the tax impacts) in the amount of \$2,149,000 in the ESM variance account in 2018 related to 2017 earnings.

The Efficiency Adjustment Mechanism (EAM) deferral account was established to provide ratepayers a refund when Hydro Ottawa's efficiency ranking declines. Hydro Ottawa's efficiency ranking as determined by the OEB for 2019 rate applications declined by 0.15% from Group III (0.3%) to Group IV (0.45%).⁷ Applying this 0.15% to 2018 service revenue requirement of \$190,594,484, Hydro Ottawa recorded an impact of \$285,892 in the EAM deferral account.

Findings

In determining 2020 rates, the OM&A, capital and revenue offset amounts included in Hydro Ottawa's 2019 revenue requirement and, accordingly, its base rates, have been adjusted as per the 2015 Settlement Agreement and are approved.

The OEB expects Hydro Ottawa to continue to report balances in the established RRDVA, ESM, and EAM deferral and variance accounts discussed above in its 2021 application. In accordance with the approved 2015 Settlement Agreement, these accounts will be reviewed for disposition at the end of the Custom IR term.⁸

⁷ Exhibit 9, tab 1, Schedule 1, page 10 of 17

⁸ For clarification, the reference to "end of the Custom IR term" means at the next cost based application following the expiry of the current Custom IR plan or otherwise as the OEB may order following the expiry of the Custom IR term.

5 LOW VOLTAGE CHARGES

The 2015 Settlement Agreement requires that Hydro Ottawa's Low Voltage (LV) rates are to be updated annually. Hydro Ottawa pays charges to Hydro One Networks Inc. (Hydro One) for a number of shared distribution stations, specific lines and shared lines. Hydro Ottawa has used its 2019 LV forecast of \$434,000, excluding rate riders for LV, in the calculations of the LV changes for the customer classes. Hydro Ottawa has proposed to allocate the charges to the customer classes based on the class percentage of retail transmission connection dollars (using 2020 proposed rates)

The resulting LV charges are shown in the table below.

Table 5.1: Proposed LV Charges

Class	Per	2019 LV Charge	2020 LV Charge
Residential	kWh	\$0.00006	\$0.00006
General Service < 50 kW	kWh	\$0.00006	\$0.00006
General Service 50 to 1,499 kW	kW	\$0.02417	\$0.02452
General Service 1,500 to 4,000 kW	kW	\$0.02583	\$0.02621
Large Use (> 5,000 kW)	kW	\$0.02909	\$0.02951
Unmetered Scattered Load	kWh	\$0.00006	\$0.00006
Sentinel Lighting	kW	\$0.01795	\$0.01822
Street Lighting	kW	\$0.01833	\$0.01860

Findings

The updated LV charges shown in Table 5.1, included in Hydro Ottawa's 2020 application, have been calculated and allocated in accordance with the approved methodology and are approved.

6 RETAIL TRANSMISSION SERVICE RATES

Distributors charge retail transmission service rates (RTSRs) to their customers to recover the amounts they pay to a transmitter, a host distributor or both for transmission services. All transmitters charge Uniform Transmission Rates (UTRs) approved by the OEB to distributors connected to the transmission system. Host distributors charge host-RTSRs to distributors embedded within the host's distribution system.

Hydro Ottawa is transmission connected and partially embedded within Hydro One's distribution system, and is requesting approval to adjust the RTSRs that it charges its customers to reflect the rates that it pays for transmission services included in Table 6.1 and Table 6.2.

Table 6.1: UTRs⁹

Current Applicable UTRs (2019)	per kWh
Network Service Rate	\$3.83
<u>Connection Service Rates</u>	
Line Connection Service Rate	\$0.96
Transformation Connection Service Rate	\$2.30

Table 6.2: Hydro One Networks Inc. Sub-Transmission RTSRs¹⁰

Current Applicable Sub-Transmission RTSRs (2019)	per kWh
Network Service Rate	\$3.29
<u>Connection Service Rates</u>	
Line Connection Service Rate	\$0.79
Transformation Connection Service Rate	\$1.98

⁹ Decision and Order, EB-2019-0164, July 25, 2019

¹⁰ Decision and Order, EB-2017-0049, June 11, 2019

Findings

Hydro Ottawa's proposed adjustments to its RTSRs are approved. Hydro Ottawa's RTSRs were adjusted based on the OEB-approved UTRs and host-RTSRs.

The differences resulting from the approval of new 2020 UTRs or new host-RTSRs will be captured in Accounts RSVA – Retail Transmission Network Charge 1584 and Retail Transmission Connection Charge 1586.

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 in order to determine whether their total balance should be disposed.¹¹ OEB policy requires that Group 1 accounts be disposed if they exceed (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.¹² If the balance does not exceed the threshold, a distributor may elect to request disposition.

The 2018 actual year-end total balance for Hydro Ottawa's Group 1 accounts including interest projected to December 31, 2019 is a credit of \$5,650,046. This amount represents a total credit claim of \$0.0008 per kWh, which does not exceed the disposition threshold but the utility requested disposition. Hydro Ottawa proposes the disposition of this credit amount over a one-year period.

a) *Global Adjustment Variance Account*

One of the components of the commodity costs billed by the IESO, which is included in Group 1 accounts, is the Global Adjustment (GA).¹³

Different customer groups pay the GA in different ways:

- For Regulated Price Plan (RPP) customers, the GA is incorporated into the standard commodity rates customers pay. Therefore, there is no separate variance account for the GA.
- "Class A" customers are allocated GA costs based on the percentage their demand contributes to the top five Ontario system peaks. As distributors settle with Class A customers based on actual GA costs, there is no resulting variance.

¹¹ Group 1 accounts track the differences between the costs that a distributor is billed for certain IESO and host distributor services (including the cost of power) and the associated revenues that the distributor receives from its customers for these services. The total net difference between these costs and revenues is disposed to customers through a temporary charge or credit known as a rate rider.

¹² "Report of the Board on Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR)" EB-2008-0046, July 31, 2009

¹³ The GA is established monthly by the IESO to reflect the difference between the wholesale market price for electricity and regulated rates for:

- Ontario Power Generation's nuclear and hydroelectric generating stations
- payments for building or refurbishing infrastructure such as gas-fired and renewable facilities and other nuclear
- contracted rates paid to a number of generators across the province
- the cost of delivering conservation programs.

- “Class B” non-RPP customers are billed GA based on the electricity they consume in a month at the IESO published GA price. Distributors track any difference between the billed amounts and actual costs for these customers in the GA Variance Account for disposal, once audited.

Under the general principle of cost causality, customer groups that cause variances which are recorded in Group 1 accounts should be responsible for paying (or receiving credits) for their disposal. A customer’s movement from one group to another should not prevent that customer from paying/receiving a debit/credit balance.

Hydro Ottawa proposes the refund of its GA variance account balance of \$4,176,218 as at December 31, 2018, including interest to December 31, 2019, in accordance with the following table:

Table 7.1: Recovery of GA Variance

Proposed Amounts	Proposed Method for Recovery
\$3,955,938 refunded to customers who were Class B for the entire period from January 2018 to December 2018	per kWh rate rider
\$167,438 refunded to customers formerly in Class B during the period January 2018 to June 2018 who were reclassified to Class A	one-time bill adjustment ¹⁴
\$52,841 refunded to customers formerly in Class A during the period January 2018 to June 2018 who were reclassified to Class B	one-time bill adjustment ¹⁵

b) Capacity Based Recovery Class B Sub-account

The balance of the Group 1 accounts includes the Capacity Based Recovery (CBR) sub-account for Class B customers of \$145,119, relating to the IESO's wholesale energy market for the CBR program. Hydro Ottawa had Class A customers during the period from January 2018 to December 2018, but the CBR Class B rate riders calculated rounded to zero at the fourth decimal place in one or more of the rate classes. In this event, the entire Account 1580 sub-account CBR Class B is added to

¹⁴ EB-2019-0046, Hydro Ottawa DVA workform, Tab 6.1a “GA Allocation”.

¹⁵ Ibid.

the Account 1580 – Wholesale Market Service Charge control account to be disposed through the general purpose Group 1 Deferral and Variance Account (DVA).

c) *Group 1 Accounts*

The Group 1 accounts (excluding global adjustment) include the following flow through variance accounts: Low Voltage Charges, Smart Meter Entity Charges, Wholesale Market Service Charges, Retail Transmission Service Charges, Commodity Power Charges, and Account 1595 residual balances. These Group 1 accounts have a total credit balance of \$1,473,828, which results in a refund to customers. This balance, combined with the balance for the global adjustment account, results in the total credit balance for Group 1 accounts of \$5,650,046.

The balances proposed for disposition reconcile with the amounts reported as part of the OEB's *Electricity Reporting and Record-Keeping Requirements*.¹⁶ Hydro Ottawa further submits that its proposal for a one-year disposition period is in accordance with the OEB's policy.¹⁷

In 2018, the OEB suspended its approvals of Group 1 rate riders on a final basis pending the development of further accounting guidance on commodity pass-through variance accounts.¹⁸ The OEB then issued accounting guidance¹⁹ on the commodity accounts on February 21, 2019. In this letter, the OEB indicated that it expects distributors to consider the accounting guidance in the context of historical balances that have not yet been disposed on a final basis. Distributors are expected to make any adjustments needed prior to filing for final disposition.

In its 2019 rate application, Hydro Ottawa received approval to dispose of 2017 Group 1 balances on an interim basis. Hydro Ottawa has reviewed the 2017 balances and the 2018 balances in the context of the new accounting guidance and stated that it is confident that there are no systemic issues in its RPP settlement and related accounting processes. Hydro Ottawa confirmed that no adjustments were required for 2017 and 2018 balances. As a result, Hydro Ottawa requested final disposition of its 2017 and 2018 balances.

¹⁶ Electricity Reporting and Record Keeping Requirements, Version dated May 3, 2016.

¹⁷ Report of the OEB – “Electricity Distributors’ Deferral and Variance Account Review Initiative (EDDVAR).” EB-2008-0046, July 31, 2009.

¹⁸ OEB letter to all rate-regulated licensed electricity distributors – “Re: OEB’s Plan to Standardize Processes to Improve Accuracy of Commodity Pass-Through Variance Accounts.” July 20, 2018.

¹⁹ Accounting Procedures Handbook Update – Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589, February 21, 2019.

Findings

The OEB approves, on a final basis, the disposition of a credit balance of \$5,650,046 as of December 31, 2018, including interest projected to December 31, 2019 for Group 1 accounts. The OEB also finds that the rate riders approved on an interim basis to dispose of the year ending December 31, 2017 credit balance of \$7,682,609, including projected interest to December 31, 2018 for Group 1 accounts, as part of the 2019 IRM proceeding, are now final, subject to the further findings below.

The OEB notes that in the 2019 Custom IR update decision, the OEB stated its expectation that Hydro Ottawa will submit details of any resolution to the ICI enrollment matter. And that at that time, Hydro Ottawa shall propose an appropriate adjustment, if necessary, for the one-time adjustments for its 2017 Class A/B transition customers, the balance and rate rider associated with its Class B GA Variance Account, and any other matters that may need to be addressed.

The OEB notes that no adjustments have been proposed at this time related to this matter. However, the OEB will proceed to finalize the balances for 2017 and 2018 and in light of the OEB's October 31, 2019 letter regarding Adjustments to Correct for Errors in Electricity Distributor "Pass-Through" Variance Accounts After Disposition, the OEB expects that any revisions to previous balances relating to this matter will be accommodated through the disposition of future variance account balances.

Similar to its 2019 Custom IR update application, Hydro Ottawa proposed to defer disposition of Account 1595 sub-accounts that are eligible²⁰ for disposition until the longer of Hydro Ottawa's next cost of service application or after a three-year period to coincide with the cancel/rebill time period. Hydro Ottawa stated that this approach would be more efficient as it would reduce the need to manually monitor and write-off residual amounts after final disposition. The OEB notes that this departs from the standard practice established by the OEB for the final true up of Account 1595. However, given the immaterial amounts of the accounts in question, the OEB approves Hydro Ottawa's proposal to defer disposition of Accounts 1595 (2016).

Table 7.2 below identifies the principal and interest amounts which the OEB approves for disposition.

²⁰ Accounts are eligible one year after the end of the rate rider and that residual balance has been audited

Table 7.2: 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	(85,363)	(2,635)	(87,998)
Smart Meter Entity Variance Charge	1551	(303,668)	(11,265)	(314,933)
RSVA - Wholesale Market Service Charge	1580	(1,523,480)	(41,445)	(1,564,925)
RSVA - Retail Transmission Network Charge	1584	104,806	(1,087)	103,719
RSVA - Retail Transmission Connection Charge	1586	(617,377)	(22,527)	(639,903)
RSVA - Power	1588	1,063,752	61,804	1,125,556
RSVA - Global Adjustment	1589	(4,106,548)	(69,669)	(4,176,218)
Disposition and Recovery of Regulatory Balances (2014)	1595	(90,123)	(5,221)	(95,344)
Totals for all Group 1 accounts		(5,558,000)	(92,045)	(5,650,046)

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 Article 220, Account Descriptions, of the *Accounting Procedures Handbook for Electricity Distributors*.²¹ 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. Hydro Ottawa shall ensure these adjustments are included in the reporting period ending March 31, 2020 (Quarter 1).

²¹ Accounting Procedures Handbook for Electricity Distributors, effective January 1, 2012.

The OEB approves these balances to be disposed through final rate riders and payments as calculated in the DVA Workform Model. The final riders and payments will be in effect over a one-year period from January 1, 2020 to December 31, 2020.²²

²² EB-2019-0046, Hydro Ottawa DVA workform Tab 6.1 GA, Tab 6.1a GA Allocation, Tab 6.2 CBR B, Tab 6.2a CBR_Allocation and Tab 7 Calculation of Def-Var RR.

8 COST ALLOCATION

As part of the 2015 Settlement Agreement, Hydro Ottawa's cost allocation models 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 2020. As part of this application, Hydro Ottawa's proposed rates are based on the continued transitioning of the Sentinel Lighting class to the OEB-approved revenue to cost ratio range by 2020, as shown in the Table 8.1. The miscellaneous revenue in the 2020 cost allocation model, filed as part of the 2015 Settlement Agreement, has been updated in this proceeding as per the Pole Attachment Decision.

Table 8.1 – Proposed Revenue to Cost (R/C) Ranges (%)

Class	2019 Approved R/C	2020 Status Quo R/C	2020 Adjusted R/C	Policy Range
Residential	104.29	104.88	104.65	85 - 115
GS < 50 kW	118.23	118.49	118.24	80 - 120
GS > 50 to 1,499 kW	86.34	86.02	86.02	80 - 120
GS > 1,500 to 4,999 kW	98.24	97.14	96.94	80 - 120
Large Use	85.36	84.91	84.91	85 - 115
Street Lighting	80.00	60.51	80.00	80 - 120
Sentinel Lighting	76.00	69.93	80.00	80 - 120
Unmetered Scattered Load	118.72	125.40	118.56	80 - 120
Standby Power	21.03	20.91	20.91	

Findings

The OEB approves Hydro Ottawa's proposal to adjust the revenue-to-cost ratios.

9 RATE DESIGN

As per the 2015 Settlement Agreement, Hydro Ottawa agreed to the following terms for rate design:

- Maintain the fix/variable ratios per the 2015 Settlement Agreement but not exceed the fixed charge ceiling or increase fixed charges which are already above the ceiling.
- Reduce the fixed charge for GS>50 to 1,499kW class from \$260 to \$200
- Charges for the residential rate class to be fully fixed by 2020

Hydro Ottawa has maintained the fixed/variable ratios per the 2015 Settlement Agreement and maintained the fixed charges which are already above the ceiling. Hydro Ottawa also maintained the fixed charge for the GS>50 to 1,499kW class at \$200.

Some residential distribution rates currently include a fixed monthly charge and a variable usage charge. The OEB's residential rate design policy stipulates that distributors will transition residential customers to a fully fixed monthly distribution service charge over a four-year period, beginning in 2016.²³ As part of the 2015 Settlement Agreement, the parties agreed that the residential distribution service rates would transition over a five-year period and be fully fixed by 2020.

The OEB expects an applicant to apply two tests to evaluate whether mitigation of bill impacts for customers is required during the transition period. Mitigation usually takes the form of a lengthening of the transition period. The first test is to calculate the change in the monthly fixed charge, and to consider mitigation if it exceeds \$4. The second test is to calculate the total bill impact of the proposals in the application for low volume residential customers (defined as those residential RPP customers whose consumption is at the 10th percentile for the class) and to consider mitigation if it exceeds 10%.

Hydro Ottawa submits that the implementation of the transition results in an increase to the fixed charge of \$3.22. The bill impacts arising from the proposals in this application, including the fixed rate change, are below 10% for low volume residential customers. As a result, mitigation is not required.

²³ OEB Policy – “A New Distribution Rate Design for Residential Electricity Customers.” EB-2012-0410, April 2, 2015.

Findings

The OEB finds that rate design is consistent with the 2015 Settlement Agreement and the proposed 2020 increase to the residential class monthly fixed charge is calculated in accordance with the OEB's residential rate design policy. The results of the monthly fixed charge, and total bill impact for low consumption residential consumers demonstrate that no mitigation is required. The OEB approves the increase as proposed by the applicant and calculated in the final rate model. The distributor has now completed its transition to a fully fixed rate structure for residential customers.

10 RETAIL SERVICE CHARGES

As part of the 2015 Settlement Agreement, the proposed retail service charges, over the 2016 – 2020 rate period were agreed upon. The 2016 to 2020 charges are shown in Table 10.1 below. The OEB issued a Report on Energy Retailer Services Charges on November 29, 2018 and which stated that the updated retail service charges would apply to all electricity distributors.²⁴ The report specifically stated that the updated retail service charges would apply to Hydro Ottawa. The OEB issued a Decision and Rate Order on November 28, 2019 that updated the retail service charges effective January 1, 2020.²⁵ In Hydro Ottawa's application, it has used the updated retail service charges to supersede the distributor-specific charges for the 2020 year that were outlined in the 2015 Settlement Agreement. The OEB mandated retail service charges for 2020 are set out in the final column of the table below.

Table 10.1 – Retail Service Charges

	2016	2017	2018	2019	2020	2020 (per OEB order)
Monthly Fixed Charge	\$24.00	\$25.00	\$26.00	\$27.00	\$28.00	\$40.08
Standard Charge	\$117.00	\$122.00	\$129.00	\$135.00	\$140.00	\$102.00
Monthly Variable Charge	\$0.60	\$0.60	\$0.65	\$0.65	\$0.70	\$1.02
Distributor Consolidated Billing Charge	\$0.35	\$0.35	\$0.40	\$0.40	\$0.40	\$0.61
Retailer Consolidated Billing Credit	\$(0.35)	\$(0.35)	\$(0.40)	\$(0.40)	\$(0.40)	\$(0.61)
Service Transaction Requests, Per	\$0.60	\$0.60	\$0.65	\$0.65	\$0.70	\$1.02
Service Transaction Requests, Per	\$0.30	\$0.30	\$0.30	\$0.35	\$0.35	\$0.51

Findings

The OEB approves the 2020 Retail Service Charges, which represent the generic retailer service charges set out in the OEB's November 28, 2019 Decision and Rate Order.

²⁴ EB-2015-0304, Report of the OEB – Energy Retailer Services Charges, November 29, 2018, p. 20

²⁵ EB-2019-0280, Decision and Rate Order, November 28, 2019

11 SPECIFIC SERVICE CHARGES

The 2015 Settlement Agreement stipulated that the service charges shown in the table below would be increased as part of this application. All other service charges will remain at the 2016 approved rates.

Table 11.1 Summary of Revised Specific Service Charges

	2016	2017	2018	2019	2020
HCI, RESOP, Other Energy Resources Service Classification	\$259.00	\$264.00	\$270.00	\$276.00	\$281.00
FIT Service Classification	\$119.00	\$121.00	\$124.00	\$126.00	\$129.00
Specific Billing Service, per hour	\$95.00	\$97.00	\$100.00	\$102.00	\$104.00
Interval Meter - Field Reading	\$347.00	\$355.00	\$362.00	\$370.00	\$378.00
High Bill Investigation - If Billing is Correct	\$213.00	\$218.00	\$222.00	\$227.00	\$232.00
Temporary Service Install & Remove: Overhead - No Transformer	\$797.00	\$813.00	\$830.00	\$848.00	\$866.00
Temporary Service Install & Remove: Underground - No Transformer	\$1,156.00	\$1,180.00	\$1,205.00	\$1,230.00	\$1,256.00
Temporary Service Install & Remove: With Transformer	\$2,840.00	\$2,900.00	\$2,961.00	\$3,023.00	\$3,087.00
Energy Resource Facility Administration Charge - Without Account Set Up (One Time)	\$127.00	\$130.00	\$133.00	\$135.00	\$138.00
Energy Resource Facility Administration Charge - With Account Set Up (One Time)	\$157.00	\$160.00	\$163.00	\$165.00	\$168.00

In addition, as per the 2015 Settlement Agreement, Hydro Ottawa has adjusted the Dry Core charges to reflect any related changes in the Regulated Price Plan and Hydro One rates. Table 11.2 below lists Hydro Ottawa's updated 2020 Dry Core charges.

Table 11.2 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			\$5.3448	\$0.1329		\$4.5731	
25 KVA 1 PH, 1.2kV BIL	150	900	\$0.86	\$12.08	\$12.94	\$0.73	\$13.67
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$1.15	\$16.10	\$17.25	\$0.98	\$18.23
50 KVA 1 PH, 1.2kV BIL	250	1600	\$1.46	\$20.26	\$21.72	\$1.25	\$22.97
75 KVA 1 PH, 1.2kV BIL	350	1900	\$1.95	\$27.92	\$29.87	\$1.67	\$31.54
100 KVA 1 PH, 1.2kV BIL	400	2600	\$2.35	\$32.47	\$34.81	\$2.01	\$36.82
150 KVA 1 PH, 1.2kV BIL	525	3500	\$3.11	\$42.73	\$45.83	\$2.66	\$48.49
167 KVA 1 PH, 1.2kV BIL	650	4400	\$3.86	\$52.99	\$56.85	\$3.31	\$60.16
200 KVA 1 PH, 1.2kV BIL	696	4700	\$4.14	\$56.72	\$60.86	\$3.54	\$64.39
225 KVA 1 PH, 1.2kV BIL	748	5050	\$4.44	\$60.96	\$65.40	\$3.80	\$69.20
250 KVA 1 PH, 1.2kV BIL	800	5400	\$4.75	\$65.19	\$69.95	\$4.07	\$74.01
*15 KVA 3 PH, 1.2kV BIL	125	650	\$0.69	\$9.94	\$10.62	\$0.59	\$11.21
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$1.72	\$24.16	\$25.87	\$1.47	\$27.34
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$2.29	\$32.21	\$34.50	\$1.96	\$36.46
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$3.38	\$48.05	\$51.43	\$2.89	\$54.32
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$4.09	\$56.75	\$60.85	\$3.50	\$64.35
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$5.12	\$72.34	\$77.46	\$4.38	\$81.85
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$6.21	\$88.19	\$94.40	\$5.32	\$99.71
*500 KVA 3 PH, 95kV BIL	2400	7600	\$11.80	\$184.46	\$196.25	\$10.09	\$206.35
*750 KVA 3 PH, 95kV BIL	3000	12000	\$15.46	\$233.81	\$249.27	\$13.23	\$262.49
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$17.35	\$264.20	\$281.55	\$14.84	\$296.40
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$23.19	\$350.71	\$373.90	\$19.84	\$393.74
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$27.66	\$420.07	\$447.73	\$23.66	\$471.39
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$33.21	\$505.29	\$538.50	\$28.42	\$566.91
*3000 KVA 3PH, 95kV BIL	7700	29000	\$39.17	\$597.77	\$636.94	\$33.51	\$670.45
*3750 KVA 3PH, 95kV BIL	9500	35000	\$48.10	\$736.50	\$784.60	\$41.15	\$825.76
*5000 KVA 3PH, 95kV BIL	11000	39000	\$55.26	\$850.82	\$906.08	\$47.28	\$953.36

Findings

The OEB approves the 2020 Specific Service Charges including Dry Core charges as per the 2015 Settlement Agreement, and as updated in this proceeding. The OEB notes that impacts on revenues arising from incremental charges were approved as part of the 2015 Settlement Agreement.

12 Y-FACTOR

In Hydro Ottawa's 2016 cost of service application, it proposed the construction of new operating centers and administrative facilities. In the 2015 Settlement Agreement, a Y-factor account was created to allow Hydro Ottawa to recover the revenue requirement impact of the capital costs for the proposed new buildings and land up to \$66 million when the facilities went into service. In addition, the value of the old facilities, which included properties on Albion Road, Merivale Road, and Bank Street, were to be removed from rate base in the same calendar year that the new facilities went into service, or upon the sale of the old buildings if that is earlier. The revenue requirement impact of doing so was to be credited to the Y-factor account.

In this application, Hydro Ottawa calculated the revenue requirement impact of the \$66 million new facilities cost. However, Hydro Ottawa has only credited the Y-factor account with two of the three old facility properties. Hydro Ottawa stated that it has determined that the third property (Bank Street) will be retained as a result of a determination made in the detailed design stage of the Facilities Renewal Program, and detailed evidence to support this decision will be provided in Hydro Ottawa's 2021 to 2025 cost-based rate application.

On December 3, 2019, Hydro Ottawa filed an updated Deferral and Variance Account Continuity Schedule and proposed that it clear its Y-factor account on an interim basis and that it would request final disposition as part of its 2021 cost based rate application. Hydro Ottawa also confirmed that the Y-factor revenue requirement calculation does not reflect the impact of Bill C-97, which includes the new accelerated Capital Cost Allowance rules. Hydro Ottawa included the necessary adjustments related to Bill C-97 into Account 1592 – PILs and Tax Variances.

The 2015 Settlement Agreement also created a New Facilities account to record the revenue requirement impact of the proposed capital costs for the new buildings and land in excess of \$66 million. This account would be subject to a prudence review at Hydro Ottawa's next rebasing application.

Findings

The OEB accepts the revenue requirement calculation of the \$66 million for new facilities costs. The OEB notes that retaining the third property was not originally contemplated in the 2015 Settlement Agreement, however, the OEB finds that in the 2015 Settlement Proposal - Attachment 3, the calculation of the Y-factor account alluded to a true-up process, if such were necessary. In addition, in the Decision on Settlement

and Procedural Order No. 11 of Hydro Ottawa's Custom IR application²⁶, the OEB stated the following:

The \$66 million was determined by the OEB as a reasonable amount to enable Hydro Ottawa to proceed with the Request for Proposal process while ensuring that any additional cost of the New Buildings and the land is subject to a prudence review at a future date.

The OEB further stated:

The approved \$66 million demonstrates that the OEB has assessed and approved the need for the New Buildings and land. The approved Y-factor deferral account will provide rate relief and certainty to Hydro Ottawa, prior to its next rebasing application.

Considering the intent of the Y-factor account is to provide rate relief and that there are provisions for both a true-up process and a prudence review at a future date, the OEB approves the disposition of the Y-factor account on an interim basis, pending the outcome of any further review of this matter in Hydro Ottawa's 2021-2025 cost based application.

²⁶ EB-2015-0004, Decision on Settlement and Procedural Order No. 11, November 23, 2015

13 IMPLEMENTATION AND ORDER

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 in order to ensure that they are in accordance with Hydro Ottawa's original Custom IR decision and order, and to ensure that the 2019 OEB-approved Tariff of Rates and Charges, as well as the cost, revenue and consumption results from 2018, are as reported by Hydro Ottawa to the OEB.

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 20, 2018.²⁷

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 on March 1, 2018.²⁸

²⁷ Decision and Order, EB-2018-0294, December 20, 2018.

²⁸ Decision and Order, EB-2017-0290, March 1, 2018.

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, 2020 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 final and interim rates.

DATED at Toronto December 17, 2019

ONTARIO ENERGY BOARD

Original Signed By

Christine E. Long
Registrar and Board Secretary

SCHEDULE A
DECISION AND RATE ORDER
HYDRO OTTAWA LIMITED
EB-2019-0046
DECEMBER 17, 2019

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2019-0046

RESIDENTIAL SERVICE CLASSIFICATION

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

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	27.79
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Approved on an Interim Basis	\$	0.85
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.00006
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	(0.0003)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052

MONTHLY RATES AND CHARGES - Regulatory Component

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

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2019-0046

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	\$	19.32
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0250
Low Voltage Service Rate	\$/kWh	0.00006
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	(0.0002)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Approved on an Interim Basis	\$/kWh	0.0010
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050

MONTHLY RATES AND CHARGES - Regulatory Component

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

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2019-0046

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	4.8760
Low Voltage Service Rate	\$/kW	0.02452
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0403)
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Applicable only for Non-Wholesale Market Participants	\$/kW	(0.0247)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Approved on an Interim Basis	\$/kW	0.1717

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Retail Transmission Rate - Network Service Rate	\$/kW	2.9017
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.0474

MONTHLY RATES AND CHARGES - Regulatory Component

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

Hydro Ottawa Limited

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

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

APPLICATION

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

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

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

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	4,193.93
Distribution Volumetric Rate	\$/kW	4.4562
Low Voltage Service Rate	\$/kW	0.02621
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0719)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020		
Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kW	0.2427
Retail Transmission Rate - Network Service Rate	\$/kW	3.0128
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1882

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MONTHLY RATES AND CHARGES - Regulatory Component

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

Hydro Ottawa Limited

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EB-2019-0046

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	\$	15,231.32
Distribution Volumetric Rate	\$/kW	4.2422
Low Voltage Service Rate	\$/kW	0.02951
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0863)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Approved on an Interim Basis	\$/kW	0.1830
Retail Transmission Rate - Network Service Rate	\$/kW	3.3399
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.4642

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MONTHLY RATES AND CHARGES - Regulatory Component

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

Hydro Ottawa Limited

TARIFF OF RATES AND CHARGES

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EB-2019-0046

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

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

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	5.09
Distribution Volumetric Rate	\$/kWh	0.0242
Low Voltage Service Rate	\$/kWh	0.00006
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	(0.0002)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kWh	0.0013
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050

MONTHLY RATES AND CHARGES - Regulatory Component

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

Hydro Ottawa Limited
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STANDBY POWER SERVICE CLASSIFICATION

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

APPLICATION

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

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

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

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

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

Service Charge	\$	145.13
General Service 50 TO 1,499 kW customer	\$/kW	1.937
General Service 1,500 TO 4,999 kW customer	\$/kW	1.7766
General Service Large User kW customer	\$/kW	1.9716

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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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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)	\$	3.17
Distribution Volumetric Rate	\$/kW	14.8502
Low Voltage Service Rate	\$/kW	0.01822
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0563)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020		
Approved on an Interim Basis	\$/kW	1.0461
Retail Transmission Rate - Network Service Rate	\$/kW	2.1420
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5211

MONTHLY RATES AND CHARGES - Regulatory Component

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

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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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)	\$	0.91
Distribution Volumetric Rate	\$/kW	6.3414
Low Voltage Service Rate	\$/kW	0.01860
Rate Rider for Disposition of Group 1 Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	(0.0609)
Rate Rider for Disposition of - Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Accounts	\$/kWh	(0.0015)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2020) - effective until December 31, 2020 Approved on an Interim Basis	\$/kW	0.5107
Retail Transmission Rate - Network Service Rate	\$/kW	2.1529
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5528

MONTHLY RATES AND CHARGES - Regulatory Component

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

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MICROFIT AND MICRO-NET-METERING SERVICE CLASSIFICATION

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

APPLICATION

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	19.00
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FIT SERVICE CLASSIFICATION

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

APPLICATION

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

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	129.00
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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

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	\$	281.00
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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	%	(1.00)

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SPECIFIC SERVICE CHARGES

APPLICATION

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

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

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Customer Administration

Account certificate	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Special billing service per hour (min 1 hour, 15 min incremental billing thereafter)	\$	104.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed payment charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Disconnect/reconnect at meter - regular hours (under account administration - new account)	\$	65.00
Disconnect/reconnect at meter - after regular hours (under account administration - new account)	\$	185.00
Interval meter - field reading	\$	378.00
High bill investigation - if billing is correct	\$	232.00

Non-Payment of Account

Late payment - per month (effective annual rate 19.56% per annum or 0.04896% compounded daily rate)	%	1.50
Reconnection at meter - during regular hours	\$	65.00
Reconnection at meter - after regular hours	\$	185.00
Reconnection at pole - during regular hours	\$	185.00
Reconnection at pole - after regular hours	\$	415.00

Other

Temporary service - install & remove - overhead - no transformer	\$	866.00
Temporary service - install & remove - underground - no transformer	\$	1,256.00
Temporary service - install & remove - overhead - with transformer	\$	3,087.00
Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	53.00
Dry core transformer distribution charge		Per Attached Table
Energy resource facility administration charge - without account set up (one time)	\$	138.00
Energy resource facility administration charge - with account set up (one time)	\$	168.00

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RETAIL SERVICE CHARGES (if applicable)

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

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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	\$	102.00
Monthly fixed charge, per retailer	\$	40.80
Monthly variable charge, per customer, per retailer	\$/cust.	1.02
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.61)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.51
Processing fee, per request, applied to the requesting party	\$	1.02
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.08
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per the Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.04

LOSS FACTORS

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

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0335
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0164
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0232
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0062

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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			\$5.3448	\$0.1329		\$4.5731	
25 KVA 1 PH, 1.2kV BIL	150	900	\$0.86	\$12.08	\$12.94	\$0.73	\$13.67
37.5 KVA 1 PH, 1.2kV BIL	200	1200	\$1.15	\$16.10	\$17.25	\$0.98	\$18.23
50 KVA 1 PH, 1.2kV BIL	250	1600	\$1.46	\$20.26	\$21.72	\$1.25	\$22.97
75 KVA 1 PH, 1.2kV BIL	350	1900	\$1.95	\$27.92	\$29.87	\$1.67	\$31.54
100 KVA 1 PH, 1.2kV BIL	400	2600	\$2.35	\$32.47	\$34.81	\$2.01	\$36.82
150 KVA 1 PH, 1.2kV BIL	525	3500	\$3.11	\$42.73	\$45.83	\$2.66	\$48.49
167 KVA 1 PH, 1.2kV BIL	650	4400	\$3.86	\$52.99	\$56.85	\$3.31	\$60.16
200 KVA 1 PH, 1.2kV BIL	696	4700	\$4.14	\$56.72	\$60.86	\$3.54	\$64.39
225 KVA 1 PH, 1.2kV BIL	748	5050	\$4.44	\$60.96	\$65.40	\$3.80	\$69.20
250 KVA 1 PH, 1.2kV BIL	800	5400	\$4.75	\$65.19	\$69.95	\$4.07	\$74.01
*15 KVA 3 PH, 1.2kV BIL	125	650	\$0.69	\$9.94	\$10.62	\$0.59	\$11.21
*45 KVA 3 PH, 1.2kV BIL	300	1800	\$1.72	\$24.16	\$25.87	\$1.47	\$27.34
*75 KVA 3 PH, 1.2kV BIL	400	2400	\$2.29	\$32.21	\$34.50	\$1.96	\$36.46
*112.5 KVA 3 PH, 1.2kV BIL	600	3400	\$3.38	\$48.05	\$51.43	\$2.89	\$54.32
*150 KVA 3 PH, 1.2kV BIL	700	4500	\$4.09	\$56.75	\$60.85	\$3.50	\$64.35
*225 KVA 3 PH, 1.2kV BIL	900	5300	\$5.12	\$72.34	\$77.46	\$4.38	\$81.85
*300 KVA 3 PH, 1.2kV BIL	1100	6300	\$6.21	\$88.19	\$94.40	\$5.32	\$99.71
*500 KVA 3 PH, 95kV BIL	2400	7600	\$11.80	\$184.46	\$196.25	\$10.09	\$206.35
*750 KVA 3 PH, 95kV BIL	3000	12000	\$15.46	\$233.81	\$249.27	\$13.23	\$262.49
*1000 KVA 3 PH, 95kV BIL	3400	13000	\$17.35	\$264.20	\$281.55	\$14.84	\$296.40
*1500 KVA 3 PH, 95kV BIL	4500	18000	\$23.19	\$350.71	\$373.90	\$19.84	\$393.74
*2000 KVA 3 PH, 95kV BIL	5400	21000	\$27.66	\$420.07	\$447.73	\$23.66	\$471.39
*2500 KVA 3 PH, 95kV BIL	6500	25000	\$33.21	\$505.29	\$538.50	\$28.42	\$566.91
*3000 KVA 3PH, 95kV BIL	7700	29000	\$39.17	\$597.77	\$636.94	\$33.51	\$670.45
*3750 KVA 3PH, 95kV BIL	9500	35000	\$48.10	\$736.50	\$784.60	\$41.15	\$825.76
*5000 KVA 3PH, 95kV BIL	11000	39000	\$55.26	\$850.82	\$906.08	\$47.28	\$953.36

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

** Cost of Energy and Wholesale Market per kWh contains November 1, 2019 RPP Tiered Pricing, WMSR and RRRP Pricing effective January 1, 2019