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DECISION AND RATE ORDER

EB-2019-0071

WATERLOO NORTH HYDRO INC.

Application for rates and other charges to be effective January 1, 2020

By Delegation, Before: Theodore Antonopoulos

December 12, 2019

1 INTRODUCTION AND SUMMARY

Through this Decision and Rate Order, the Ontario Energy Board (OEB) approves the incentive rate-setting mechanism (IRM) application filed by Waterloo North Hydro Inc. (Waterloo North Hydro) for new rates effective January 1, 2020.

Waterloo North Hydro serves approximately 57,000 mostly residential and commercial electricity customers in the City of Waterloo and Townships of Wellesley and Woolwich. The company is seeking the OEB's approval for the rates it charges to distribute electricity to its customers, as is required of licenced and rate-regulated distributors in Ontario.

A distributor may choose one of three rate-setting methodologies approved by the OEB. Each of these is explained in the [Handbook for Utility Rate Applications](#).

Waterloo North Hydro's application is based on a Price Cap Incentive Rate-setting option (Price Cap IR), with a five-year term. The Price Cap IR option involves the setting of rates through a cost of service application in the first year. Mechanistic price cap adjustments, based on inflation and the OEB's assessment of the distributor's efficiency, are typically then approved through IRM applications in each of the ensuing four (adjustment) years.

As a result of the OEB's findings in this Decision, there will be a monthly total bill increase before taxes of \$3.03 for a residential customer consuming 750 kWh, effective January 1, 2020.

2 THE PROCESS

This Decision is being issued by delegated authority, without a hearing, under section 6 of the *Ontario Energy Board Act, 1998* (the OEB Act).

The OEB follows a standardized and streamlined process for hearing IRM applications filed under Price Cap IR. In each adjustment year of a Price Cap IR term, the OEB prepares a Rate Generator Model that includes, as a placeholder, information from the distributor's past proceedings and annual reporting requirements.¹ A distributor will then review and complete the Rate Generator Model, and include it with its application.

¹ The Rate Generator Model is a Microsoft Excel workbook that is used to update base rates, retail transmission service rates and, if applicable, shared tax saving adjustments. It also calculates rate riders for the disposition of deferral and variance account balances. During the course of an IRM proceeding, the Rate Generator Model may be updated in order to make any necessary corrections, or to incorporate new rate-setting parameters as they become available.

Waterloo North Hydro filed its application on August 9, 2019 under section 78 of the OEB Act and in accordance with the Chapter 3 of the OEB's [Filing Requirements for Incentive Rate-Setting Applications](#) (Filing Requirements) [and Addendum to Filing Requirements for Electricity Distribution Rate Applications](#).

The application was supported by pre-filed written evidence and a completed Rate Generator Model. During the course of the proceeding, the applicant responded to OEB staff questions through emails and phone calls and, where required, updated and clarified the evidence.

3 ORGANIZATION OF THE DECISION

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

- Price Cap Adjustment
- Retail Transmission Service Rates
- Group 1 Deferral and Variance Accounts

In the final section, the OEB addresses the steps to implement the final rates that flow from this Decision.

This Decision does not address rates and charges approved by the OEB in previous proceedings, which are not part of the scope of an IRM proceeding (such as specific service charges² and loss factors). No further approvals are required to continue to include these items on a distributor's Tariff of Rates and Charges.

² Specific service charges have been amended by the OEB through: the Report of the OEB – "Wireline Pole Attachment Charges", EB-2015-0304, Issued March 22, 2018; and, the Decision and Order on Energy Retail Service Charges EB-2015-0304, Issued on February 14, 2019. Certain Service Charges are subject to annual inflationary adjustments to be determined by the OEB through a generic order. The Decision and Order EB-2019-0280 issued November 28, 2019 for energy retailer service charges, and the cover letter dated November 28, 2019 "Inflation Adjustment for Energy Retailer Service Charges (EB-2019-0280) and Wireline Pole Attachment Charge (EB-2015-0304) for Electricity Distributors", established the adjustments effective January 1, 2020.

4 PRICE CAP ADJUSTMENT

Waterloo North Hydro seeks to increase its rates, effective January 1, 2020, based on a mechanistic rate adjustment using the OEB-approved *inflation minus X-factor* formula applicable to Price Cap IR applications.

The components of the Price Cap IR adjustment formula applicable to Waterloo North Hydro are set out in Table 4.1, below. Inserting these components into the formula results in a 1.70% increase to Waterloo North Hydro's rates: **1.70% = 2.00% - (0.00% + 0.30%)**.

Table 4.1: Price Cap IR Adjustment Formula

Components		Amount
Inflation Factor ³		2.00%
X-Factor	Productivity ⁴	0.00%
	Stretch (0.00% – 0.60%) ⁵	0.30%

The inflation factor of 2.00% applies to all Price Cap IR applications for the 2020 rate year.

The X-factor is the sum of the productivity factor and the stretch factor. It is a productivity offset that will vary among different groupings of distributors. Subtracting the X-factor from inflation ensures that rates decline in real, constant-dollar terms, providing distributors with a tangible incentive to improve efficiency or else experience declining net income.

The productivity component of the X-factor is based on industry conditions over a historical study period and applies to all Price Cap IR and Annual IR Index applications for the 2020 rate year.

³ For the 2020 Inflation Factor, see Ontario Energy Board 2020 Electricity Distribution Rate applications webpage – October 31, 2019.

⁴ Report of the OEB – “Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for Ontario’s Electricity Distributors” EB-2010-0379, Issued November 21, 2013, corrected December 4, 2013.

⁵ The stretch factor groupings are based on the Report to the Ontario Energy Board – “Empirical Research in Support of Incentive Rate-Setting: 2018 Benchmarking Update”, prepared by Pacific Economics Group LLC., August 15, 2019.

The stretch factor component of the X-factor is distributor specific. The OEB has established five stretch factor groupings, each within a range from 0.00% to 0.60%. The stretch factor assigned to any particular distributor is based on the distributor's total cost performance as benchmarked against other distributors in Ontario. The most efficient distributor would be assigned the lowest stretch factor of 0.00%. Conversely, a higher stretch factor would be applied to a less efficient distributor (in accordance with its cost performance relative to expected levels) to reflect the incremental productivity gains that the distributor is expected to achieve. The stretch factor assigned to Waterloo North Hydro is 0.30%.

Findings

The OEB finds that Waterloo North Hydro's request for a 1.70% rate adjustment is in accordance with the annually updated parameters set by the OEB. The adjustment is approved, and Waterloo North Hydro's new rates shall be effective January 1, 2020.

The adjustment applies to distribution rates (fixed and variable) uniformly across all customer classes.⁶

5 RETAIL TRANSMISSION SERVICE RATES

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

Waterloo North Hydro is partially embedded within Hydro One Networks Inc., Kitchener-Wilmont Hydro Inc. and Energy+ Inc.'s distribution system and is requesting approval to adjust the RTSRs that it charges its customers to reflect the currently approved rates that it pays for transmission services included in Table 5.1, Table 5.2, Table 5.3 and Table 5.4.

⁶ Price Cap IR and Annual IR Index adjustments do not apply to the following rates and charges: rate riders, rate adders, low voltage service charges, retail transmission service rates, wholesale market service rate, smart metering entity charge, rural or remote electricity rate protection charge, standard supply service – administrative charge, transformation and primary metering allowances, loss factors, specific service charges, microFIT charge, and retail service charges.

Table 5.1: UTRs⁷

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

Table 5.2: Hydro One Networks Inc. Sub-Transmission Host-RTSRs⁸

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

Table 5.3: Kitchener-Wilmont Hydro Inc. Sub-Transmission Host-RTSRs⁹

Sub-Transmission RTSRs (2019)	per kW
Network Service Rate	\$2.57
<u>Connection Service Rates</u>	
Line Connection Service Rate	\$0.80

⁷ EB-2019-0164, Decision and Order, July 25, 2019.⁸ EB-2017-0049, Decision and Order, June 11, 2019.⁹ EB-2018-0048, Decision and Rate Order, August 1, 2018.

Table 5.4: Energy+ Inc. Sub-Transmission Host-RTSRs¹⁰

Sub-Transmission RTSRs (2019)	per kW
Network Service Rate	\$2.40
<u>Connection Service Rates</u>	
Line Connection Service Rate	\$2.00

Findings

Waterloo North Hydro's proposed adjustment to its RTSRs is approved. Waterloo North Hydro RTSRs were adjusted to reflect the OEB-approved UTRs and host-RTSRs.

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

6 GROUP 1 DEFERRAL AND VARIANCE ACCOUNTS

In each year of an IRM 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 Waterloo North Hydro's Group 1 accounts including interest projected to December 31, 2019 is a debit of \$671,318. While this amount represents a total debit claim of \$0.0005 per kWh, and does not exceed the

¹⁰ EB-2017-0030, Decision and Rate Order, March 22, 2018 and EB-2018-0028, Decision and Rate Order, August 1, 2019.

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

disposition threshold, Waterloo North Hydro has applied to dispose the Group 1 accounts.

a) Global Adjustment Variance Account

One of the components of the commodity costs billed by the Independent Electricity System Operator (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.
- “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.

Waterloo North Hydro proposes the disposition of its GA variance account credit balance of \$345,574 as at December 31, 2018, including interest to December 31, 2019, in accordance with the following table.

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.

Table 6.1: Refund of GA Variance

Proposed Amounts	Proposed Method for Recovery
\$343,004 refunded to customers who were Class B for the entire period from January 2018 to December 2018	per kWh rate rider
\$2,570 refunded to customers formerly in Class B during the period January 2018 to June 2018 who were reclassified to Class A	12 equal installments ¹⁴

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 \$48,893, relating to the IESO's wholesale energy market for the CBR program. Waterloo North Hydro 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 the Account 1580 – Wholesale Market Service Charge control account to be disposed through the general purpose Group 1 Deferral and Variance Account.

c) Group 1 Accounts

The Group 1 accounts being sought for disposition (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 debit balance of \$1,016,893, which results in a charge to customers. This balance combined with the balance for the global adjustment account results in the total balance for Group 1 accounts of \$671,318.

The balances proposed for disposition reconcile with the amounts reported as part of the OEB's *Electricity Reporting and Record-Keeping Requirements*.¹⁵ Waterloo North Hydro further submits that its proposal for a one-year disposition period is in accordance with the OEB's policy.¹⁶

¹⁴ 2020 IRM Rate Generator Model, Tab 6.1a "GA Allocation".

¹⁵ Electricity Reporting and Record Keeping Requirements, Version dated May 3, 2016.

¹⁶ Report of the OEB – "Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR)." EB-2008-0046, July 31, 2009.

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.¹⁷ The OEB issued accounting guidance¹⁸ 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. Based on the accounting guidance of February 21, 2019, distributors are expected to make any adjustments needed prior to filing for final disposition.

In its 2019 IRM decision and order,¹⁹ Waterloo North Hydro received approval to dispose of 2017 Group 1 balances on an interim basis. However, the decision and order stated the following:

The OEB finds that Waterloo North's credit balance of \$1,105,779 of account 1588 RSVA Power is high for a distributor of its size. The OEB expects Waterloo North Hydro perform an internal review to determine the operational reasons for this balance and report its findings back to the OEB as part of its 2020 rate application. Given that the OEB is not disposing of Group 1 accounts generally on a final basis, in the event that Waterloo North Hydro uncovers any material discrepancies in account 1588, it would have the opportunity to adjust the balance of this account in future.²⁰

In the current application, Waterloo North Hydro stated that:

WNH completed a review of this account in 2019. Due to the current process for settlement it was determined that there is a price variance that had not been trueed up with the IESO in 2017 and 2018. This will be resolved for 2019 and future years due to the transition to the new 1588/1589 account rules set out by the OEB.²¹

Waterloo North Hydro further stated in its response to OEB staff's questions, that the above price variance statement was related to the true-up adjustments in this application and Waterloo North Hydro plans to make these adjustments with the IESO upon OEB's approval of this application.

¹⁷ 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.

¹⁸ Accounting Procedures Handbook Update – Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589, February 21, 2019.

¹⁹ Decision and Rate Order, EB-2018-0074, December 13, 2018.

²⁰ EB-2018-0074, December 13, 2018, page 8.

²¹ Application and Evidence, pages 8-9.

When Waterloo North Hydro reviewed its RPP settlement true-ups performed in 2017 it determined that a correction was required for an additional debit of \$794,379. Waterloo North Hydro will complete this RPP settlement true-up correction with the IESO in 2019, but recorded the debit adjustment of \$794,379 correctly in the 2018 deferral and variance account continuity schedule in the 1588 RSVA power account balance as part of the 2020 IRM rate application. The OEB finds this adjustment relating to a prior year to be reasonable for the following reason.

By taking into account the RPP Settlement debit correction of \$794,379 in the 2017 1588 RSVA power account balance, the account balance would be a credit of \$311,400 as compared to the originally approved credit amount of \$1,105,779 in the 2019 IRM proceeding. This adjusted balance is approximately 0.6% of the 2017 1588 RSVA power account power purchases.²² This is a reasonable ratio as it is within the range of the OEB's 1% threshold that it uses for the global adjustment workform, for example.

As indicated, the 2018 1588 RSVA power account debit balance of \$852,430 includes the RPP settlement correction relating to 2017 totalling a debit of \$794,379. If the 2017 RPP settlement correction is excluded, the 2018 1588 RSVA power account balance would be a debit of \$58,051. The OEB notes that this includes the RPP settlement correction for 2018 activities of a credit of \$298,382. The OEB also finds this balance and the December 31, 2018 balance to be reasonable.

Waterloo North Hydro confirmed that there are now no longer any systemic issues with its RPP settlement and the related accounting processes, and requests final disposition of the balances of its 2017 and 2018 Group 1 accounts. Waterloo North Hydro has confirmed that it has switched to using monthly usage data instead of monthly-billed data for RPP settlements, similar to what its practice has been for the global adjustment. In addition, Waterloo North Hydro has updated its RPP settlement processes and now reflects changes in commodity and GA prices as part of its true up processes and has recorded RPP settlement true-up adjustments related to prices for 2017 and 2018 in this application.

²² 0.64% is calculated as \$311,400 divided by the sum of the total commodity costs for RPP customers (\$41,769,526) and the total commodity cost excluding global adjustments for Non-RPP customers (\$7,142,768). Waterloo North provided the total energy cost figures in the excel file "1588 Review" dated October 8, 2019.

Findings

The OEB approves the disposition of a debit balance of \$671,318 as of December 31, 2018, including interest projected to December 31, 2019 for Group 1 accounts on a final basis.

The following table identifies the principal and interest amounts, which the OEB approves for disposition.

Table 6.2: 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	103,512	3,655	107,167
Smart Meter Entity Variance Charge	1551	(67,812)	(1,518)	(69,330)
RSVA - Wholesale Market Service Charge	1580	(249,343)	13,179	(236,164)
RSVA - Retail Transmission Network Charge	1584	155,938	2,773	158,711
RSVA - Retail Transmission Connection Charge	1586	296,123	9,743	305,866
RSVA - Power	1588	865,538	(13,108)	852,430
RSVA - Global Adjustment	1589	(348,978)	3,404	(345,574)
Disposition and Recovery of Regulatory Balances (2017)	1595	39,743	(141,531)	(101,788)
Totals for all Group 1 accounts		794,721	(123,403)	671,318

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*.²³ The date of the transfer must be the same as the effective date for the

²³ Accounting Procedures Handbook for Electricity Distributors, effective January 1, 2012.

associated rates, which is, generally, the start of the rate year. Waterloo North Hydro shall ensure these adjustments are included in the reporting period ending March 31, 2020 (Quarter 1).

The OEB approves the December 31, 2018 balances to be disposed through final rate riders and payments as calculated in the Rate Generator Model. The final rate riders and payments will be in effect over a one-year period from January 1, 2020 to December 31, 2020.²⁴ The OEB also finds that the rate riders approved on an interim basis to dispose of the year ending December 31, 2017 balances, as part of the 2019 IRM proceeding, are now final.

7 IMPLEMENTATION AND ORDER

This Decision is accompanied by a Rate Generator Model, 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 Waterloo North Hydro's last cost of service decision, 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 Waterloo North Hydro to the OEB.

The Rate Generator Model was adjusted, where applicable, to correct any discrepancies. The Rate Generator Model incorporates the rates set out in the following table.

Table 7.1: 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

²⁴ 2020 IRM Rate Generator Model Tab 6.1 GA, Tab 6.1a GA Allocation, and Tab 7 Calculation of Def-Var RR.

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, 2018.²⁵

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, 2018.²⁶

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. Waterloo North Hydro Inc. shall notify its customers of the rate changes no later than the delivery of the first bill reflecting the new final rates.

DATED at Toronto, December 12, 2019

ONTARIO ENERGY BOARD

Original Signed By

Christine E. Long
Registrar and Board Secretary

²⁵ EB-2018-0294, Decision and Order, December 20, 2018.

²⁶ EB-2017-0290, Decision and Order, March 1, 2018.

Schedule A

To Decision and Rate Order

Tariff of Rates and Charges

OEB File No: EB-2019-0071

DATED: December 12, 2019

Waterloo North Hydro Inc.
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-2019-0071

RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate 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, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. All customers are single-phase. 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	\$	32.05
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0073
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0026

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

Waterloo North Hydro Inc.
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-2019-0071

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum 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 Ontario Energy Board approval, such as the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	33.71
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0168
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0024

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

Waterloo North Hydro Inc.
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-2019-0071

GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 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. Note that for the application of the Retail Transmission Rate - Network Service Rate and the Retail Transmission Rate - Line and Transformation Connection Service Rate the following sub-classifications apply: General Service 50 to 999 kW non-interval metered; General Service 50 to 999 kW interval metered; and General Service 1,000 to 4,999 kW interval metered.

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.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	125.96
Distribution Volumetric Rate	\$/kW	5.3438
Low Voltage Service Rate	\$/kW	0.0738
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020 Applicable only for Non-Wholesale Market Participants	\$/kW	0.1629

Issued - December 12, 2019

Waterloo North Hydro Inc.
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-2019-0071

Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.1251
Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.7777
Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.9504
Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.9464
Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.9053
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1306
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1295

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

Waterloo North Hydro Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2020
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approved schedules of Rates, Charges and Loss Factors

EB-2019-0071

LARGE USE SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand used for billing purposes 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 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.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	7,359.96
Distribution Volumetric Rate	\$/kW	4.2410
Low Voltage Service Rate	\$/kW	0.0925
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.4253
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	3.2665
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1346

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Waterloo North Hydro Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2020
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approved schedules of Rates, Charges and Loss Factors

EB-2019-0071

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

Waterloo North Hydro Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2020
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EB-2019-0071

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. 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 (per connection)	\$	11.20
Distribution Volumetric Rate	\$/kWh	0.0139
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0024

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

Waterloo North Hydro Inc.
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-2019-0071

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board 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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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)	\$	0.35
Distribution Volumetric Rate	\$/kW	9.8917
Low Voltage Service Rate	\$/kW	0.0570
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.2362
Retail Transmission Rate - Network Service Rate	\$/kW	2.0950
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6996

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

Waterloo North Hydro Inc.
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-2019-0071

microFIT SERVICE CLASSIFICATION

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

APPLICATION

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

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	5.40
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Waterloo North Hydro Inc.
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-2019-0071

EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licensed by the Ontario Energy Board that is provided electricity by means of this distributor's facilities. 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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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

Distribution Volumetric Rate	\$/kW	0.0211
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.3168

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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TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2020
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EB-2019-0071

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

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

Easement letter	\$	15.00
Notification charge	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Income tax letter	\$	15.00
Account set up charge / change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00

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

Other

Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	44.50
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Waterloo North Hydro Inc.
TARIFF OF RATES AND CHARGES
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EB-2019-0071

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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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.

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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	1.0362
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0147
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0259
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0047