2020 Distribution Rate Adjustment Application
EB-2019-0059

OAKVILLE HYDRO

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Oakville Hydro Electricity Distribution Inc.

2020 Distribution Rate Adjustment Application (EB-2019-0059)

Effective January 1, 2020

IN THE MATTER OF the Ontario Energy Board Act, 1998, being Schedule B to the Energy Competition Act, 1998, S.O. 1998, c.15;

AND IN THE MATTER OF an Application by Oakville Hydro Electricity Distribution Inc. to the Ontario Energy Board for an Order or Orders approving or fixing just and reasonable rates and other service charges for the distribution of electricity as of January 1, 2020.

Filed: August 12, 2019

Contents

1. MANAGER'S SUMMARY

Oakville Hydro is incorporated pursuant to the Ontario Business Corporations Act with its head office in the Town of Oakville. Oakville Hydro carries on the business of distributing electricity within the Town of Oakville. Oakville Hydro hereby applies to the Ontario Energy Board (the "OEB"), pursuant to Section 78 of the Ontario Energy OEB Act, 1998 (the "OEB Act"), for approval of its proposed adjustments to its distribution rates and other charges, effective January 1, 2020.

Oakville Hydro has followed Chapter 3 of the OEB's *Filing Requirements for Electricity Distribution Rate Applications – 2018 Edition for 2019 Rate Applications* dated July 12, 2018 and the *Addendum to Filing Requirements for Electricity Distribution Rate Applications – 2020 Rate Applications* dated July 15, 2019 (the "Filing Requirements") in order to prepare this Application.

The Proposed Schedule of Rates and Charges proposed in this Application is provided in Appendix 1 of this document. The proposed rates reflect an adjustment to the rates previously approved by the OEB in the rate order issued on December 20, 2018, OEB File EB-2018-0059.

The specific approvals requested are:

a) A price cap adjustment;
b) The continuation of the current low voltage service charges as approved in EB-2013-0159;
c) The approval for the proposed adjustments to the current Retail Transmission Service Rates as approved in Oakville Hydro's 2019 application, EB-2018-0059;
d) The approval to record a tax sharing amount of $14,603 to be recovered from customers in a deferral account;
e) The continuation of existing specific service charges and loss factors as approved in EB-2013-0159 and amended in EB-2018-0159;
f) The approval to dispose of the balance of the Lost Revenue Adjustment Mechanism Variance Account as at December 31, 2018; and
g) The approval of the proposed rate riders for recovery of the revenue requirement associated with the incremental capital costs for four discrete projects.

If the Application is approved as filed, Oakville Hydro's residential and small business customers will see the following bill impacts:

- Residential: A typical residential customer using 750 kWh in a month will see an increase of $2.73 or 2.43% in their total monthly bill.
- General Service < 50 kW: A typical General Service < 50 kW will see an increase of $2.12 or 0.72% in their total monthly bill.

Oakville Hydro requests that this Application be disposed of by way of a written hearing. In the event that the OEB is unable to provide a Decision and Order on this Application for implementation effective January 1, 2020, Oakville Hydro requests that the OEB issue an Interim Rate Order declaring its current Tariff of Rates and Charges as interim until the implementation date of the approved 2020 distribution rates.

2. CONTACT INFORMATION

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3. CERTIFICATION OF EVIDENCE

As Chief Financial Officer of Oakville Hydro Electricity Distribution Inc. (Oakville Hydro), I certify that, to the best of my knowledge:

a) the evidence filed in this Application is accurate and that it is consistent Chapter 3 of the OEB's *Filing Requirements for Electricity Distribution Rate Applications – 2018 Edition for 2019 Rate Applications* dated July 12, 2018 and the *Addendum to Filing Requirements for Electricity Distribution Rate Applications – 2020 Rate Applications* dated July 15, 2019; and

b) that robust processes and internal controls are in place for the preparation, verification and oversight of Oakville Hydro's variance account balances.

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Karen Marner

Chief Financial Officer

4. Rate Generator

Oakville Hydro has provided a copy of the OEB's 2020 Rate Generator as Appendix 2 to this Application. A live Excel file is also being filed in support of this Application. Oakville Hydro confirms that it has verified the accuracy of the billing determinants in the pre-populated Rate Generator model.

5. Current Tariff of Rates and Charges

Oakville Hydro's current tariff of rates and charges effective January 1, 2019, EB-2018-0059, is provided as Appendix 3.

6. Who Will Be Affected

Oakville Hydro's customers, including its embedded distributor, will be affected by this Application.

7. Bill Impacts

If the Application is approved as filed, a typical residential customer using 750 kWh per month will see an increase of $2.73 or 2.43% in their total monthly bill. A customer in the General Service < 50 kW class using 2,000 kWh per month will see an increase of $2.12 or 0.72% in their total monthly bill. Detailed bill impact schedules are provided in the OEB's 2020 Rate Generator in Appendix 2.

Oakville Hydro notes that the increase in its distribution charges is $0.26 for the residential rate class and $0.53 for the General Service < 50 kW rate class. However, as shown in the following table, the expiry of the 2019 rate riders and increases in transmission charges contribute to the bill impacts for each of these rate classes.

Table 1 – Bill Impacts

Bill Component	Residential	General Service < 50 kW
Distribution Charges	$0.26	$0.53
Expiry of 2019 Rate Riders	$1.12	($3.43)
Proposed 2020 LRAM Rate Rider	$0.30	$2.80
Proposed 2020 ICM Rate Rider	$0.38	$0.88
Transmission Charges	$0.54	$1.24
Sub-Total	$2.60	$2.02
8% Rebate	($0.21)	($0.16)
HST	$0.34	$0.26
Total Bill Impact	$2.73	$2.12

8. Annual Adjustment Mechanism

In accordance with the Filing Requirements, Oakville Hydro has used the 2019 rate setting parameters as a placeholder until the stretch factor assignments and inflation factor for 2020 are issued by the OEB.

The price cap adjustment used in the 2020 Rate Generator is 0.9%. This calculation is based upon a price escalator of 1.20%, a productivity factor of 0.00% and a stretch factor of 0.30%. Oakville Hydro acknowledges that the OEB will update Oakville Hydro's 2020 Rate Generator Model with the updated price escalator and stretch factor once they have been published by the OEB.

9. Rate Design for Residential Electricity Customers

On April 2, 2015, the OEB released its *OEB Policy: A New Distribution Rate Design for Residential Electricity Customers* (EB-2014-0210). This policy required that electricity distributors transition to fully fixed rates for residential customers over a period of four years, beginning in 2016, while taking into account the need to mitigate rate impacts for customers. Oakville Hydro completed the transition to fully fixed rates in 2019 and no further adjustments are required.

10. Electricity Distribution Retail Transmission Service Rates

Oakville Hydro has calculated the adjustment to the current Retail Transmission Service Rates (RSTR) as approved in its 2019 Incentive Regulation Mechanism (IRM) application, EB-2018-0059. Oakville Hydro is proposing that the RSTR Connection and RSTR Network rates be adjusted as shown in Table 2. The detailed calculations may be found in the 2020 Rate Generator that accompanies this Application as Appendix 2.

Table 2 – Current and Proposed RSTR Rates

	RSTR - Network		RSTR - Connection	
Rate Class	**Current**	**Proposed**	**Current**	**Proposed**
Residential	0.0077	0.0079	0.0058	0.0060
General Service Less Than 50 kW	0.0071	0.0073	0.0053	0.0055
General Service 50 To 1,000 kW	2.6658	2.7248	2.011	2.0704
General Service 50 To 1,000 kW-Interval	2.7519	2.8128	2.0761	2.1374
General Service Greater Than 1,000 kW	2.7519	2.8128	2.0761	2.1374
Unmetered Scattered Load	0.0071	0.0073	0.0053	0.0055
Sentinel Lighting	0.0534	0.5462	0.4031	0.4150
Street Lighting	2.2239	2.2731	1.6778	1.7274
Embedded Distributor	2.7519	2.8128	2.0761	2.1374

11. REVIEW AND DISPOSITION OF GROUP 1 DEFERRAL AND VARIANCE ACCOUNT BALANCES

11.1 OVERVIEW

The *Report of the OEB on Electricity Distributors' Deferral and Variance Account Review* (the "EDVAR Report") provides that distributors' Group 1 audited account balances be reviewed and disposed of if the disposition threshold of $0.001 per kWh is exceeded. The audited balance of Oakville Hydro's Group 1 accounts is $933,589 or $0.0006 per kWh, which is below the disposition threshold. Therefore, Oakville Hydro is not requesting approval for this disposition of its Group 1 account balances in this Application.

Table 3 – Group 1 Account Balances

Group 1 Accounts	Account	Principal	Interest	Total Claim
LV Variance Account	1550	$ 280,625	$ 30,578	$ 311,203
Smart Metering Entity Charge Variance Account	1551	(92,964)	(7,500)	(100,464)
RSVA - Wholesale Market Service Charge	1580	(126,304)	(80,573)	(206,877)
Variance WMS – Sub-account CBR Class B	1580	(35,113)	9,169	(25,944)
RSVA - Retail Transmission Network Charge	1584	(199,884)	(21,188)	(221,072)
RSVA - Retail Transmission Connection Charge	1586	252,826	(2,990)	249,836
RSVA - Power	1588	1,309,074	75,697	1,384,771
Disposition and Recovery/Refund of Regulatory Balances (2017)	1595	(106,566)	(14,816)	(121,382)
Sub-total		1,281,694	(11,623)	1,270,071
RSVA - Global Adjustment	1589	(408,972)	72,490	(336,482)
Total Group 1 Balance		$ 872,722	$ 60,867	$ 933,589

In accordance with the Filing Requirements, Oakville Hydro has provided the Account 1595 Analysis Workform as a live Excel file.

11.2 EXPLANATION OF RRR VARIANCES

The Rate Generator model is prepopulated with the Group 1 RSVA balances filed by Oakville Hydro in accordance with the OEB's Reporting and Record Keeping Requirements (RRR). Distributors are required to provide an explanation of any variances between the amounts reported through the RRR and the continuity schedule in the Rate Generator. The following table and accompanying notes summarize the variances and provide the required explanations.

Table 4 – RRR Variances

Account Descriptions	Account Number	2.1.7 RRR As of December 31, 2018	Variance RRR vs. 2018 Balance	
RSVA - Wholesale Market Service Charge	1580	$ (3,226,476)	$ 469,498	Note 1
Variance WMS – Sub-account CBR Class A	1580	2,106	-	Note 1
Variance WMS – Sub-account CBR Class B	1580	467,392	-	Note 1
RSVA - Global Adjustment	1589	3,743,379	(72,654)	Note 2
Disposition and Recovery/Refund of Regulatory Balances (2015)	1595	150,707	195,198	Note 3
Disposition and Recovery/Refund of Regulatory Balances (2018)	1595	14,875	(195,198)	Note 3
LRAM Variance Account	1568	$ 1,057,619	$ (246,858)	Note 4

Note 1: In accordance with the guidance provided in the 2017 Orientation Session[1] for cost of service filers, Oakville Hydro has excluded amounts related to the Variance WMS – Sub-account CBR Class A and Variance WMS – Sub-account CBR Class B from the 1580 RSVA – WMS Charge account in the continuity schedule. However, the valued that is automatically populated from the RRR filings includes these amounts. Therefore, cell BW23 in the continuity schedule tab of the rate generator shows a variance for account 1580 equal to the amounts in the sub-accounts.

Note 2: The Variance between the amount recorded account RSVA - Global Adjustment in the continuity schedule and that reported in the 2018 RRR is as a result of the principal adjustments of $72,654 in the GA workform.

Note 3: The Variance between Disposition and Recovery/Refund of Regulatory Balances (2015) account and the Disposition and Recovery/Refund of Regulatory Balances (2018) account is due to the way in which Oakville Hydro reported the amount approved for recovery of 2018 windstorm cost in its 2019 IRM application. The amount approved for recovery should have been reported in the 2018 RRR Filing in the 2018 disposition account rather than the 2015 disposition account. Oakville Hydro will submit a request to update the 1508 sub-account balances for the Disposition and Recovery/Refund of Regulatory Balances (2015) and (2018) accounts.

Note 4: Oakville Hydro has updated the balance of the LRAM variance account to equal the amount being claimed for disposition in this Application to enable the rate generator model to calculate the appropriate rate riders.

11.3 Adjustments to Deferral and Variance Accounts

In accordance with its Assurance of Voluntary Compliance, EB-2019-0113, Oakville Hydro has made an adjustment of $322,453 to Account 1588 relating to an under recovery of generation payments from the IESO for the period 2010 to 2015.

12. Global Adjustment

12.1 Class B and A Customers

Oakville Hydro bills its Class B customers based upon the first estimate of the global adjustment for all rate classes, including the one customer in Oakville Hydro's embedded distributor rate class. Class A customers are billed based upon actual Class A global adjustment charges therefore, there are no Class A global adjustment variance balances.

[1] Orientation Session for Cost of Service Applicants, Page 11, https://www.oeb.ca/oeb/_Documents/2017EDR/2017_COS_Orientation_Jul28-16_Presentationv1.pdf

12.2 Global Adjustment Workform

The Global Adjustment Work Form and responses to the questions in Appendix A of the Workform instructions is provided in Appendix 4. A live Excel version is being filed in support of this Application.

12.3 Description of the Settlement Process

Oakville Hydro prepares its monthly Regulated Price Plan ("RPP") refund claims on an accrual basis. Oakville Hydro uses actual billed data from its Customer Information System ("CIS"). The CIS provides metering data, the estimated Global Adjustment, the Weighted Average Price ("WAP") of power for RPP customers and the amounts billed to RPP customers for power.

Oakville Hydro calculates the accrual using actual smart meter data from its Operational Data Store ("ODS"). Each month, Oakville Hydro provides its ODS service provider with the last read date for all RPP customers. This data is combined with the smart meter data stored in the ODS to provide, for each RPP customer, the kWh consumed but not billed.

12.4 RPP Settlement True-Ups

The Global Adjustment is trued-up on a monthly basis using the actual global adjustment as posted on the Independent Electricity System Operator's ("IESO") website. The claim is submitted through the IESO portal by the fourth business day of the month and verified on the IESO invoice on the tenth business day of the month.

12.5 New Accounting Guidance

On February 21, 2019, the OEB issued its letter entitled *Accounting Guidance related to Accounts 1588 Power, and 1589 Retail Settlement Variance Account (RSVA) Global Adjustment* as well as the related accounting guidance. The accounting guidance is effective January 1, 2019 and is to be implemented by August 31, 2019. Distributors are expected to consider the accounting guidance in the context of historical balances that have yet to be disposed of on a final basis.

Oakville Hydro has revised it practices and procedures to comply with the new accounting guidance. Oakville Hydro will implement the new accounting guidance by August 31, 2019.

In its 2019 Incentive Regulation Mechanism ("IRM") application, Oakville Hydro received approval for the interim disposal of its Group 1 account balances for 2016 and 2017. Oakville Hydro will review the historical balances for 2016 and 2017 in the context of the new accounting guidance prior to requesting final disposition.

13. Lost Revenue Adjustment Mechanism Variance Account

13.1 Overview

Oakville Hydro requests approval for the clearance of its energy and demand related Lost Revenue Adjustment Mechanism Variance Account ("LRAMVA") of $1,304,477 attributable to new energy efficiency programs in 2017 and 2018 and prior year persistence from 2011 to 2016 programs on 2017 and 2018 revenues. The OEB's Generic LRAM Work Form is being provided in Excel format in support of this request.

For the 2017 and 2018 program years, the IESO has made the Participation and Cost Report available to electricity distributors as well as detailed project level savings reports. The Participation and Cost Report includes, amongst other information, incremental first year energy savings as well as information related to persistent savings.

Oakville Hydro confirms that it has used the Participation and Cost Report and the detailed project level savings to calculate the amount to be included in the LRAMVA for all projects except for the Town of Oakville's Street Light replacement project, which is discussed in the following section. A copy of the Participation and Cost Report and the detailed project level savings is being filed in support of this Application.

Oakville Hydro confirms that the most recent input assumptions were used to calculate lost revenue.

13.2 Street Light Replacement Project

In its 2014 Cost of Service application, Oakville Hydro forecasted that the demand in the street lighting rate class would decrease by 16 kW in the 2014 test year. The Town's Street Light Replacement Project was expected to begin in late 2014 with a minimal impact on the 2014 load forecast. However, the project was delayed, with work beginning in May 2016.

Oakville Hydro has proposed to use the methodology set out in Tab 8 of the Generic LRAMVA Workform rather than the evaluation used by the IESO due to the unique load profile associated with street lighting. Since the IESO measures demand savings based upon peak demand and the actual savings are in non-peak hours, the IESO has reported kWh savings of 2,145,212 and demand savings of zero for the street lighting project (Application ID 151559) in its 2018 detailed report.

Oakville Hydro confirms that it has received reports from the Town of Oakville that validate the number and type of bulbs replaced or retrofitted through the IESO Program. A table in live excel format, showing the detailed calculations of the change in billed demand due to the street light upgrade project (including data on the number of bulbs, type of bulb replaced or refitted and average demand per bulb) has been provided in Tab 8 of the Generic LRAMVA Workform.

Oakville Hydro has used the net to gross ratio for prescriptive retrofit projects in the Greater Toronto Area ("GTA") of 79% to calculate the net street light savings. This net to gross ratio corresponds with the classification of the project by the IESO in its detailed project level report.

Oakville Hydro confirms that the street light upgrades represent incremental savings attributable to participation in the IESO program and that the associated demand savings from the IESO program are zero and therefore there is no double counting of the savings.

Rather than calculating the kWh savings as suggested in the OEB's 2020 IRM Checklist, Oakville Hydro has left the kWh as calculated by the IESO in the model. Oakville Hydro notes that, since the street lighting rate class is billed on kW demand, kWh reductions do not result in lost revenues for electricity distributors.

Oakville Hydro submits that, while the street light replacement project may not have reduced the peak demand in the Province, it has contributed to Oakville Hydro's targeted reduction in energy and reduced Oakville Hydro's revenues. Therefore, it is appropriate to use the demand savings calculated from the detailed reports received from the Town of Oakville rather than the demand savings reported in the IESO's Participation and Cost Report.

13.3 LRAM Rate Riders

Oakville Hydro is proposing to dispose of the 2017/2018 LRAM amount of $1,304,477 over a 24-month period to align with the number of years being claimed and to minimize the bill impacts to its customers.

Table 5 – LRAM Rate Riders January 1, 2020 to December 31, 2021

Rate Class	Billing Determinant	kWh / kW	Principal	Interest	Total	Annual Disposition	Rate Rider
Residential	kWh	591,698,674	$405,119	$28,250	$433,369	$216,684	$ 0.0004
General Service < 50 kW	kWh	173,870,024	427,195	43,166	470,361	235,180	0.0014
General Service > 50 kW	kW	1,559,074	317,931	10,506	328,437	164,219	0.1053
General Service > 1000 kW	kW	476,945	17,067	897	17,964	8,982	0.0188
Street Lighting	kW	17,274	51,394	2,952	54,346	27,173	$ 1.5730
Total			$1,218,706	$85,771	$1,304,477	$652,238	

14. Tax Changes

The OEB has determined that currently known legislated tax changes will be reflected in IRM adjustments and that a 50/50 sharing of those tax changes between Oakville Hydro and its rate payers is appropriate. There has not been any known legislated tax changes since Oakville Hydro's 2014 Cost of Service application. However, Oakville Hydro notes that the OEB's 2020 Rate Generator is applying a tax rate of 26.5% based on the 2014 approved rate base whereas the 2014 PILs model applied the small business tax rate of 15.5% based upon net income for tax purposes. As a result, the 2020 Rate Generator is calculating a tax-sharing amount of $14,603 recoverable from customers. Consistent with the OEB's Decision and

Rate Order in Oakville Hydro's 2018 IRM Application, Oakville Hydro is requesting approval to record this amount in Account 1595 for disposition at a later date.[2]

15. INCREMENTAL CAPITAL MODULE

15.1 OVERVIEW

Oakville Hydro is seeking approval for a rate rider to recover amounts, through rates, related to incremental capital investments through the OEB's Incremental Capital Module ("ICM").

The ICM is available to electricity distributors, like Oakville Hydro, who are filling for an adjustment to their distribution rates under the Price Cap Incentive Regulation ("Price Cap IR"). The ICM is intended to address the treatment of capital investment needs that arise during the rate-setting plan which are incremental to the materiality threshold defined in the ICM.

15.2 ELIGIBILITY

The OEB's policy for the funding of incremental capital is set out in the *Report of the Board New Policy Options for the Funding of Capital Investments: The Advanced Capital Module*, September 18, 2014 (the "ACM Report") and the subsequent *Report of the OEB New Policy Options for the Funding of Capital Investments: Supplemental Report* (the "Supplemental Report").

The requested amount must be incremental to a distributor's capital requirements within the context of its financial capacities underpinned by existing rates and satisfy the eligibility criteria of materiality, need and prudence set out in section 4.1.5 of the ACM Report.

Materiality

A capital budget is deemed to be material, and as such reflect eligible projects, if it exceeds the OEB-defined materiality threshold. Any incremental capital amounts approved for recovery must fit within the total eligible incremental capital amount and must clearly have a significant influence on the operation of the distributor.

Need

Amounts must be based on discrete projects, and should be directly related to the claimed driver. The amounts must be clearly outside of the base upon which the rates were derived.

[2] Decision and Order – EB-2017-0067, page 4.

Prudence

The amounts to be incurred must be prudent. This means that the distributor's decision to incur the amounts must represent the most cost-effective option (not necessarily the least initial cost) for ratepayers.

15.3 MATERIALITY

The ICM materiality threshold is the level of capital expenditures that a distributor should be able to manage with its current rates, growth in demand and normal volatility in business conditions. Oakville Hydro has calculated its materiality threshold to be $15,097,570 using Version 5.0 of the OEB's Capital Module Applicable to ACM and ICM workform posted on August 1, 2019. A copy of this workform is provided as Appendix 5 and a live excel model is being filed in support of this Application.

Oakville Hydro is seeking approval for the recovery of the revenue requirement associated with the four incremental capital projects listed in Table 6.

Table 6 – Incremental Capital Projects

Category	Project		Initiated By	2019 Capital Investment (Net of Capital Contributions)	% Completion
System Access	A	Road Widening – Speers Rd	Town of Oakville	$2,000,000	90%
System Access	B	Road Widening – Trafalgar Road	Halton Region	$2,200,000	50%
System Access	C	Road Widening – William Halton Parkway	Halton Region	$1,200,000	20%
System Access	D	Feeder Replacement and Relocation – Bronte Transformer Station	Hydro One	$1,700,000	30%
Total				$7,100,000	

Oakville Hydro's 2019 capital budget is $21,174,000. Therefore, Oakville Hydro is requesting approval for the recovery of the revenue requirement associated with maximum eligible incremental capital spending of $6,076,240 in this Application. The remaining $1,023,360 will be funded through Oakville Hydro's current rates.

Table 7 – Maximum Eligible Incremental Capital

Total Capital Budget	$21,174,000
Less: Materiality Threshold	$15,097,570
Maximum Eligible Incremental Capital	$6,076,240

Table 8 – ICM Amount

Incremental Capital Investment (Table 6)	$7,100,000
Less: Maximum Eligible Incremental Capital (Table 7)	$6,076,640
Amount to be Funded Through Current Rates	$1,023,360

Oakville Hydro submits that the budgeted amount of $7,100,000 exceeds the maximum eligible incremental capital amount; each of the projects is significant in relation to the total capital budget and that these incremental capital costs will have a significant influence on its operations. As shown in the per cent completion column in Table 6, each of these projects are well underway. All projects are expected to be completed before December 31, 2019. Oakville Hydro has invested $3,600,000 year-to-date, which has put significant pressure on its cash flow.

15.4 NEED

The distributor must satisfy the eligibility criteria of need, comprised of: i) passing the means test; (ii) amounts to be incurred must be based on discrete projects; and (iii) amounts to be incurred must be outside of the base upon which rates were derived.

- Means Test

  The distributor must pass the means test as defined in the ACM Report. If a distributor's regulated return on equity ("ROE") exceeds 300 basis points above the deemed return on equity embedded in the distributor's rates, the funding for any incremental capital project will not be allowed. Oakville Hydro's 2018 actual ROE was 10.65%, which is 1.29% higher than its approved ROE of 9.36% and well within the dead band of 300 basis points.

- Discrete Projects

  Oakville Hydro is requesting recovery of the revenue requirement related to four discrete projects, all of which are system access projects. Each of these projects are related to the claimed driver.

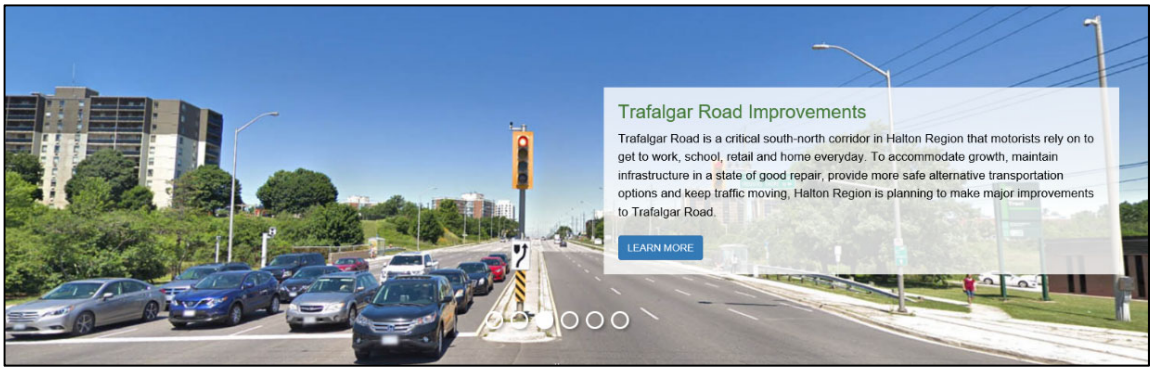
- Inclusion in Base Rates

  These capital projects are system access projects over which Oakville Hydro has no control and would not have been foreseen when it developed its 2014 Distribution System Plan based on the information that it had at that time.

15.5 PRUDENCE

A distributor must demonstrate that the amounts to be incurred are prudent. A description of the projects for which approval is being sought is provided in the following paragraphs. As discussed in the project descriptions, each of these projects are system access projects over which Oakville Hydro has limited control.

- **Road Widening Projects**



Three of the four projects that Oakville Hydro is requesting recovery for are related to requests by road authorities for the relocation of Oakville Hydro's overhead distribution assets. The Town of Oakville's (the "Town") 2019 capital budget includes funding for the reconstruction and widening of Speers Road from west of Third Line to Fourth Line. Improvements are necessary to incorporate all modes of travel within the corridor and address safety concerns and operational inefficiencies. Halton Region's (the "Region") 2019 capital budget includes funding for the widening of William Halton Parkway and Trafalgar Road as part of its State-of-Good-Repair program.

These three projects are planned to be completed in 2019. The timing for these projects is determined by the applicable road authority and Oakville Hydro has no control over the pacing of the expenditures.

In order to facilitate the completion of these road-widening projects, the Town and Region have requested that Oakville Hydro relocate its distribution assets. Section 3.1.10 of the Distribution System Code, requires that a distributor recover the cost of relocating distributor owned assets from the customer that requests the relocation, except to the extent recovery is limited under law.

The Public Service Works on Highways Act ("PSWHA") requires that the cost of labour employed for the removal or relocation of Oakville Hydro's distribution assets be apportioned equally between the road authority and Oakville Hydro. Therefore, Oakville Hydro will receive a capital contribution equal to 50% of the labour costs for these projects. The amounts for which Oakville

Hydro is seeking recovery are net of the capital contribution and represent Oakville Hydro's capital investment net of 50% of the labour costs for these projects.

It is Oakville Hydro's policy to relocate overhead assets on roadways rather than bury them underground, unless specifically asked to do so, due to the cost involved in underground installations. Oakville Hydro submits that this is the most prudent approach.

- **Feeder Replacement and Relocation – Bronte TS**

Hydro One Network Inc.'s ("Hydro One") Transmission System Plan ("TSP"), filed on May 31, 2016 (EB-2016-0160) included plans to the replace obsolete, non-standard assets at the Bronte TS that were directly affecting the operability and reliability of the transmission system. In their TSP, Hydro One concluded that failing to proceed with this investment would result in a significant risk of further equipment deterioration and declining reliability to the customers in the area. A copy of the section of the TSP relating to this project is provided as Appendix 6.

The plan to replace assets at the Bronte TS is also addressed in Section 7.12 of the joint Burlington to Nanticoke Regional Infrastructure Plan ("RIP") dated February 7, 2017. A copy of the RIP is provided as Appendix 7.

In its TSP, Hydro One considered three alternatives:

1. Continue to maintain the assets (status quo);
2. In-Situ replacement of the assets; or
3. Relocated replacement of the assets.

Alternative one was considered and rejected as it did not address the risk of failure due to asset condition and would result in increased maintenance expenses. Both alternatives two and three were considered further. Alternative three was the preferred and recommended alternative, as alternative two would impose staging risks associated with maintaining supply to the local distribution company in addition to space limitations posed by the station property.

In order to facilitate completion of this project by Hydro One, Oakville Hydro is required to install new underground feeders from the new location of assets, reconfigure Oakville Hydro's overhead

circuits and install new feeder meters. This project will be in service in 2019. There are no additional revenues associated with the completion of this project.

Oakville Hydro submits that this work supports the most prudent option put forth by Hydro One and that, by extension, is the most prudent option.

15.6 Half-Year Rule

The OEB's general guidance on the application of the half-year rule, as provided in its Supplemental Report on the New Policy Options for the Funding of Capital, is that the half-year rule should not apply so as not to build a deficiency for the subsequent years of the IRM plan term. However, the OEB's approach in decisions has been to apply the half-year rule in cases in which the ICM request coincided with the final year of a distributor's IRM plan term.

Oakville Hydro is currently scheduled to file a cost of service application for rates effective January 1, 2021. However, based on its 2018 actual and 2019 forecasted financial and non-financial performance, Oakville Hydro does not anticipate filing a cost of service application for rates effective January 1, 2021. Therefore, Oakville Hydro submits that it is not appropriate to apply the half-year rule.

15.7 Revenue Requirement

The incremental revenue requirement associated with each of the proposed projects and the maximum eligible ICM amount of $6,076,430 is provided in the following table.

Table 9 – Incremental Revenue Requirement

Project	Road Widening Speers Road	Road Widening Trafalgar Road	Road Widening William Halton Parkway	Bronte Feeder Replacement	Total	Maximum Eligible ICM Amount
Incremental Capital	$ 2,000,000	$ 2,200,000	$ 1,200,000	$ 1,700,000	$ 7,100,000	$ 6,076,430
Less: Amortization (half-year rule)	23,000	25,500	12,500	24,500	85,500	73,174
Incremental Capital	1,977,000	2,174,500	1,187,500	1,675,500	7,014,500	6,003,256
Return On Rate Base	127,496	140,233	76,581	108,052	452,363	387,148
Amortization Expense	46,000	51,000	25,000	49,000	171,000	146,348
Incremental PILs (Grossed Up)	-	-	-	-	-	-
Total	$ 173,496	$ 191,233	$ 101,581	$ 157,052	$ 623,363	$ 533,496

15.8 Actions to Be Taken In The Event That The ICM is Not Approved

Each of the projects that have been included in Oakville Hydro's ICM application are system access projects over which Oakville Hydro has no control. In the event that the OEB does not approve its ICM application, Oakville Hydro would need to consider significant reductions in its planned and paced investments in system service and system renewal projects in its 2020 capital plan.

15.9 Rate Riders

Oakville Hydro is proposing that the revenue requirement of $533,496 be recovered through a fixed rate rider for the residential rate class and a combination of fixed and variable rate riders for non-residential rate classes, except the embedded distributor rate class, until its next cost of service application.

The proposal for a fixed rate rider for the residential rate class is consistent with Section 3.2.3 of the Filing Requirements. The proposal for a combination of fixed and variable rate riders for the non-residential rate classes is consistent with Oakville Hydro's current rate structure and the OEB's Decision and Rate Order in Burlington Hydro's 2019 IRM Application (EB-2018-0021).

Consistent with Tab 7 of the ICM model, the revenue requirement of $533,496 has been allocated to each rate class except the embedded distributor rate class based on Oakville Hydro's 2018 volumes and its current rates. The rational for excluding the embedded distributor rate class from the allocation of the review requirement is that the embedded distributor's customers will not benefit from the proposed incremental capital projects. Therefore, it is appropriate for Oakville Hydro's customers to bear the costs related to the proposed incremental capital projects. The resulting rate riders are computed in Tab 11 of the ICM model and summarized below.

Table 10 – Proposed ICM Rate Riders

Rate Class	Fixed Rate Riders	Variable Rate Riders	
	Monthly Rate Rider	kWh Rate Rider	kW Rate Rider
Residential	$0.38	$0.0000	$0.0000
General Service Less Than 50 kW	$0.48	$0.0002	$0.0000
Unmetered Scattered Load	$0.14	$0.0001	$0.0000
General Service Greater Than 50 kW	$1.65	$0.0000	$0.0644
General Service Greater Than 1000 kW	$47.28	$0.0000	$0.0374
Sentinel Lighting	$0.04	$0.0000	$0.6337
Street Lighting	$0.05	$0.0000	$0.3148

16. IRM Check List

Oakville Hydro is filing the IRM Check List as Appendix 8.

17. CONCLUSION

Oakville Hydro requests approval for an Order or Orders approving or fixing just and reasonable rates and other service charges for the distribution of electricity effective January 1, 2020 as set out in the proposed Tariff of Rates and Charges in Appendix 1 and this Application, subject to a change in the price cap formula to reflect the 2020 rate-setting parameters.

All of which is respectfully submitted this 12th day of August, 2019.

Original Signed By

Maryanne Wilson
Director, Regulatory and Compliance

APPENDIX 1 – PROPOSED TARIFF OF RATES AND CHARGES

Oakville Hydro Electricity Distribution 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-2019-0059

RESIDENTIAL SERVICE CLASSIFICATION

This class refers to the supply of electrical energy to detached and semi-detached residential buildings as well as farms as defined in the local zoning by-laws. Where the residential dwelling comprises the entire electrical load of a farm, it is defined as a residential service. Where electricity is provided to a combined residential and business (including agricultural usage) and the service does not provide for separate metering, the classification shall be at the discretion of Oakville Hydro and shall be based on such considerations as the estimated predominant 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	29.65
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.38
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kWh	0.0004
Retail Transmission Rate - Network Service Rate	$/kWh	0.0081
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0061

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers and whose monthly average peak demand in the preceding twelve months is less than 50kW. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. Note: Apartment buildings or multi-unit complexes and subdivisions that are not individually metered are treated as General Service. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	37.36
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.48
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Distribution Volumetric Rate	$/kWh	0.0165
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kWh	0.0014
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0056

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is in the range of 50 to 999 kW. There are two sub categories within this class, those being non-interval and interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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 Energt 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.

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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	127.49
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	1.65
Distribution Volumetric Rate	$/kW	4.9854
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kW	0.1053
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.0644

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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		EB-2019-0059
Retail Transmission Rate - Network Service Rate	$/kW	2.7963
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.8866
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.1089
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.1772

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is equal to or greater than 1,000 kW. These accounts will all be interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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.

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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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	3,659.20
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	47.28
Distribution Volumetric Rate	$/kW	2.8935
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kW	0.0188

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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		EB-2019-0059
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.0374
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.8866
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.1772

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

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, pedestrian X-Walk signals/beacons, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information and 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	10.56
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.14
Distribution Volumetric Rate	$/kWh	0.0100
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kWh	0.0001
Retail Transmission Rate - Network Service Rate	$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0056

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

SENTINEL LIGHTING SERVICE CLASSIFICATION

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

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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	2.89
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.04
Distribution Volumetric Rate	$/kW	49.0533
Low Voltage Service Rate	$/kW	0.0255
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.6337
Retail Transmission Rate - Network Service Rate	$/kW	0.5606
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.4227

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

STREET LIGHTING SERVICE CLASSIFICATION

All services supplied to street lighting equipment owned by or operated for the Municipality, the Region or the Province of Ontario shall be classified as Street Lighting Service. Street Lighting plant, facilities, or equipment owned by the customer are subject to the Electrical Safety Authority (ESA) requirements and Oakville Hydro specifications. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	3.97
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.05
Distribution Volumetric Rate	$/kW	24.3663
Low Voltage Service Rate	$/kW	0.1061
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kW	1.5730
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.3148
Retail Transmission Rate - Network Service Rate	$/kW	2.3327
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.7595

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licenced by the Ontario Energy Board, which is provided electricity by means of this distributor's facilities. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5,459.07
Distribution Volumetric Rate	$/kW	2.9816
Low Voltage Service Rate	$/kW	0.1313
Retail Transmission Rate - Network Service Rate	$/kW	2.8866
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.1772

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

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

ALLOWANCES

Transformer Allowance for General Service > 50 to 999kW customers that own their transformers (per kW of billing demand/month)	$/kW	(0.50)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

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EB-2019-0059

SPECIFIC SERVICE CHARGES

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

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

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

Customer Administration

Statement of account	$	15.00
Pulling post dated cheques	$	15.00
Duplicate invoices for previous billing	$	15.00
Easement letter	$	15.00
Account history	$	15.00
Credit reference/credit check (plus credit agency costs)	$	15.00
Returned cheque (plus bank charges)	$	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	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/reconnect at meter - during regular hours	$	65.00
Disconnect/reconnect at meter - after regular hours	$	185.00
Disconnect/reconnect at pole - during regular hours	$	185.00
Disconnect/reconnect at pole - after regular hours	$	415.00

Other

Special meter reads	$	30.00
Service call (after first service call in a 12-month period) - during regular hours	$	30.00
Service call (after first service call in a 12-month period) - after regular hours	$	165.00
Temporary service - install & remove - overhead - no transformer	$	500.00
Temporary service - install & remove - underground - no transformer	$	300.00
Specific charge for access to the power poles - $/pole/year (with the exception of wireless attachments)	$	44.15

Oakville Hydro Electricity Distribution 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-2019-0059

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 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.

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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	$	101.20
Monthly Fixed Charge, per retailer	$	40.48
Monthly Variable Charge, per customer, per retailer	$/cust.	1.01
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	$	1.01
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)	$	4.05

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	1.0376
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0272
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

APPENDIX 2 – RATE GENERATOR

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Quick Link
Ontario Energy Board's 2020 Electricity

Version 2.0

Utility Name	Oakville Hydro Electricity Distribution Inc.
Assigned EB Number	EB-2019-0059
Name of Contact and Title	Maryanne Wilson , Director, Regulatory and Compliance
Phone Number	905-825-4422
Email Address	mwilson@oakvillhydro.com
We are applying for rates effective	Wednesday, January 1, 2020
Rate-Setting Method	**Price Cap IR**
1. Select the last Cost of Service rebasing year	**2014**
2. Select the year that the balances of Accounts 1588 and 1589 were last approved for disposition *(e.g. If 2017 balances were approved for disposition in the 2019 rate application, select 2017)*	**2017**
3. Select the year that the balances of the remaining Group 1 DVAs were last approved for disposition	**2017**
4. Select the earliest vintage year in which there is a balance in Account 1595 *(e.g. If 2016 is the earliest vintage year in which there is a balance in a 1595 sub-account, select 2016)*	**2015**
5. Did you have any Class A customers at any point during the period that the Account 1589 balance accumulated (i.e. from the year the balance was last disposed to the year requested for disposition)?	**Yes**
6. Did you have any customers classified as Class A at any point during the period where the balance in Account 1580, Sub-account CBR Class B accumulated (i.e. from the year the balance was last disposed to the year requested for disposition)?	**Yes**
7. Retail Transmission Service Rates: Oakville Hydro Electricity Distribution Inc. is:	**Partially Embedded** **Within** Hydro One **Distribution System(s)** *(If necessary, enter all embedded distributor names in the above green shaded cell)*
8. Have you transitioned to fully fixed rates?	**Yes**

Legend

Pale green cells represent input cells.

Pale blue cells represent drop-down lists. The applicant should select the appropriate item from the drop-down list.

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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

EB-2018-0059

RESIDENTIAL SERVICE CLASSIFICATION

This class refers to the supply of electrical energy to detached and semi-detached residential buildings as well as farms as defined in the local zoning by-laws. Where the residential dwelling comprises the entire electrical load of a farm, it is defined as a residential service. Where electricity is provided to a combined residential and business (including agricultural usage) and the service does not provide for separate metering, the classification shall be at the discretion of Oakville Hydro and shall be based on such considerations as the estimated predominant 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	29.39
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	0.14
Rate Rider for Recovery of Stranded Meter Assets - effective until April 30, 2019	$	0.77
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kWh	(0.0034)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kWh	0.0003
Retail Transmission Rate - Network Service Rate	$/kWh	0.0077
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0058

Ontario Energy Board

Incentive Rate-setting Mechanism
Rate Generator for 2020 Filers

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers and whose monthly average peak demand in the preceding twelve months is less than 50kW. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. Note: Apartment buildings or multi-unit complexes and subdivisions that are not individually metered are treated as General Service. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	37.03
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	0.37
Rate Rider for Recovery of Stranded Meter Assets - effective until April 30, 2019	$	2.27
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Distribution Volumetric Rate	$/kWh	0.0164
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	0.0032
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kWh	(0.0031)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kWh	0.0003
Retail Transmission Rate - Network Service Rate	$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is in the range of 50 to 999 kW. There are two sub categories within this class, those being non-interval and interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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 Energt 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.

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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	126.35
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	4.47
Distribution Volumetric Rate	$/kW	4.9409
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.0222)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Applicable only for Non-Wholesale Market Participants - Approved on an Interim Basis	$/kW	(1.1171)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(0.0075)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1210
Retail Transmission Rate - Network Service Rate	$/kW	2.6658
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0110
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

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

GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is equal to or greater than 1,000 kW. These accounts will all be interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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.

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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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	3,626.56
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	32.22
Distribution Volumetric Rate	$/kW	2.8677
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	0.0102
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(1.3617)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1220
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761

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

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, pedestrian X-Walk signals/beacons, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information and 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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	10.47
Rate Rider for Recovery of Wind Storm Damage Costs (per connection) - effective until December 31, 2019	$	0.06
Distribution Volumetric Rate	$/kWh	0.0099
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kWh	(0.0030)
Retail Transmission Rate - Network Service Rate	$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

SENTINEL LIGHTING SERVICE CLASSIFICATION

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

APPLICATION

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	2.86
Rate Rider for Recovery of Wind Storm Damage Costs (per connection) - effective until December 31, 2019	$	0.04
Distribution Volumetric Rate	$/kW	48.6158
Low Voltage Service Rate	$/kW	0.0255
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1151
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(5.6914)
Retail Transmission Rate - Network Service Rate	$/kW	0.5344
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.4031

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

STREET LIGHTING SERVICE CLASSIFICATION

All services supplied to street lighting equipment owned by or operated for the Municipality, the Region or the Province of Ontario shall be classified as Street Lighting Service. Street Lighting plant, facilities, or equipment owned by the customer are subject to the Electrical Safety Authority (ESA) requirements and Oakville Hydro specifications. Class B consumers are defined in accordance with O. Reg. 429/04.Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	3.93
Rate Rider for Recovery of Wind Storm Damage Costs (per connection) - effective until December 31, 2019	$	0.07
Distribution Volumetric Rate	$/kW	24.1490
Low Voltage Service Rate	$/kW	0.1061
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.0505)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(1.0553)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1139
Retail Transmission Rate - Network Service Rate	$/kW	2.2239
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.6778

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licenced by the Ontario Energy Board, which is provided electricity by means of this distributor's facilities. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5,410.38
Distribution Volumetric Rate	$/kW	2.9550
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(1.0687)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1160
Retail Transmission Rate - Network Service Rate	$/kW	2.7519
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0761

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

microFIT SERVICE CLASSIFICATION

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

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for General Service > 50 to 999kW customers that own their transformers (per kW of billing demand/month)	$/kW	(0.50)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

SPECIFIC SERVICE CHARGES

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

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

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

Customer Administration

Statement of account	$	15.00
Pulling post dated cheques	$	15.00
Duplicate invoices for previous billing	$	15.00
Easement letter	$	15.00
Account history	$	15.00
Credit reference/credit check (plus credit agency costs)	$	15.00
Returned cheque (plus bank charges)	$	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	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/reconnect at meter - during regular hours	$	65.00
Disconnect/reconnect at meter - after regular hours	$	185.00
Disconnect/reconnect at pole - during regular hours	$	185.00
Disconnect/reconnect at pole - after regular hours	$	415.00

Other

Special meter reads	$	30.00
Service call (after first service call in a 12-month period) - during regular hours	$	30.00
Service call (after first service call in a 12-month period) - after regular hours	$	165.00
Temporary service - install & remove - overhead - no transformer	$	500.00
Temporary service - install & remove - underground - no transformer	$	300.00
Specific charge for access to the power poles - $/pole/year (with the exception of wireless attachments)	$	43.63

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

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

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
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)	$	2.00

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	1.0376
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0272
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Please see instructions tab for detailed instructions on how to complete tabs 3 to 7. Column BV has been prepopulated from the latest 2.1.7 RRR filing.

Please refer to the footnotes for further instructions.

Account Descriptions	Account Number
Group 1 Accounts	
LV Variance Account	1550
Smart Metering Entity Charge Variance Account	1551
RSVA - Wholesale Market Service Charge[5]	1580
Variance WMS – Sub-account CBR Class A[5]	1580
Variance WMS – Sub-account CBR Class B[5]	1580
RSVA - Retail Transmission Network Charge	1584
RSVA - Retail Transmission Connection Charge	1586
RSVA - Power[4]	1588
RSVA - Global Adjustment[4]	1589
Disposition and Recovery/Refund of Regulatory Balances (2013)[3]	1595
Disposition and Recovery/Refund of Regulatory Balances (2014)[3]	1595
Disposition and Recovery/Refund of Regulatory Balances (2015)[3]	1595
Disposition and Recovery/Refund of Regulatory Balances (2016)[3]	1595
Disposition and Recovery/Refund of Regulatory Balances (2017)[3]	1595
Disposition and Recovery/Refund of Regulatory Balances (2018)[3]	1595
Disposition and Recovery/Refund of Regulatory Balances (2019)[3] *Not to be disposed of until a year after rate rider has expired and that balance has been audited*	1595
RSVA - Global Adjustment	**1589**
Total Group 1 Balance excluding Account 1589 - Global Adjustment	
Total Group 1 Balance	
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**
Total including Account 1568	

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

[1] Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

[2] 1) If the LDC's rate year begins on January 1, 2020, the projected interest is recorded from January 1, 2019 to December 31, 2019 on the December 31, 2018 balances adjusted to remove balances approved for disposition in the 2019 rate decision.
2) If the LDC's rate year begins on May 1, 2020, the projected interest is recorded from January 1, 2019 to April 30, 2020 on the December 31, 2018 balances adjusted to remove balances approved for disposition in the 2019 rate decision.

[3] The individual sub-accounts as well as the total for all Account 1595 sub-accounts is to agree to the RRR data. Differences need to be explained. For each Account 1595 sub-account, the transfer of the balance approved for disposition into Account 1595 is to be recorded in "OEB Approved Disposition" column. The recovery/refund is to be recorded in the "Transaction" column. The audited balance in the account is only to be disposed a year after the recovery/refund period has been completed. Generally, no further transactions would be expected to flow through the account after that. Any vintage year of Account 1595 is only to be disposed once on a final basis. No further dispositions of these accounts are generally expected thereafter, unless justified by the distributor.
Select yes in column BU if the sub-account is requested for disposition

[4] Effective May 23, 2017, per the OEB's letter titled Guidance on Disposition of Accounts 1588 and 1589, applicants must reflect RPP settlement true-up claims pertaining to the period that is being requested for disposition in Accounts 1588 and 1589. The amount requested for disposition starts with the audited account balance. If the audited account balance does not reflect the true-up claims for that year, the impacts of the true-up claims are to be shown in the Adjustment column in that year. Note that this true-up claim will need to be reversed in the amount requested for disposition in the following year, unless the RPP settlement true-up claim was not reflected as an adjustment in the previously disposed ending account balance. Also see Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589, dated February 21, 2019 for further detailed accounting guidance.

[5] Account 1580 RSVA WMS balance inputted into this schedule is to exclude any amounts relating to CBR. CBR amounts are to be inputted into Account 1580, sub-accounts CBR Class A and Class B separately. There is no disposition of Account 1580, sub-account CBR Class A, accounting guidance for this sub-account is to be followed. If a balance exists for Account 1580, sub-account CBR Class A as at Dec. 31, 2018, the balance must be explained.

2015										2016									
Opening Principal Amounts as of Jan 1, 2015	Transactions Debit / (Credit) during 2015	OEB-Approved Disposition during 2015	Principal Adjustments[1] during 2015	Closing Principal Balance as of Dec 31, 2015	Opening Interest Amounts as of Jan 1, 2015	Interest Jan 1 to Dec 31, 2015	OEB-Approved Disposition during 2015	Interest Adjustments[1] during 2015	Closing Interest Amounts as of Dec 31, 2015	Opening Principal Amounts as of Jan 1, 2016	Transactions Debit / (Credit) during 2016	OEB-Approved Disposition during 2016	Principal Adjustments[1] during 2016	Closing Principal Balance as of Dec 31, 2016	Opening Interest Amounts as of Jan 1, 2016	Interest Jan 1 to Dec 31, 2016	OEB-Approved Disposition during 2016	Interest Adjustments[1] during 2016	Closing Interest Amounts as of Dec 31, 2016
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0			(12,002)	(12,002)	0			48,033	48,033	(12,002)	(0)			(12,002)	48,033	12,079			60,111
0			10,803	10,803	0			(32,884)	(32,884)	10,803	(2,829)			7,975	(32,884)	0			(32,884)
0			35,323	35,323	0			2,624	2,624	35,323	(27,183)			8,140	2,624	(34)			2,589
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0				0	0				0	0				0	0				0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	34,125	34,125	0	0	0	17,772	17,772	34,125	(30,012)	0	0	4,113	17,772	12,044	0	0	29,816
0	0	0	34,125	34,125	0	0	0	17,772	17,772	34,125	(30,012)	0	0	4,113	17,772	12,044	0	0	29,816
0				0	0				0	0				0	0				0
0	0	0	34,125	34,125	0	0	0	17,772	17,772	34,125	(30,012)	0	0	4,113	17,772	12,044	0	0	29,816

2017										2018									
Opening Principal Amounts as of Jan 1, 2017	Transactions Debit / (Credit) during 2017	OEB-Approved Disposition during 2017	Principal Adjustments[1] during 2017	Closing Principal Balance as of Dec 31, 2017	Opening Interest Amounts as of Jan 1, 2017	Interest Jan 1 to Dec 31, 2017	OEB-Approved Disposition during 2017	Interest Adjustments[1] during 2017	Closing Interest Amounts as of Dec 31, 2017	Opening Principal Amounts as of Jan 1, 2018	Transactions Debit / (Credit) during 2018	OEB-Approved Disposition during 2018	Principal Adjustments[1] during 2018	Closing Principal Balance as of Dec 31, 2018	Opening Interest Amounts as of Jan 1, 2018	Interest Jan 1 to Dec 31, 2018	OEB-Approved Disposition during 2018	Interest Adjustments[1] during 2018	Closing Interest Amounts as of Dec 31, 2018
0			937,998	937,998	0			10,823	10,823	937,998	280,625.09			1,218,623	10,823	20,003			30,826
0			(202,112)	(202,112)	0			(2,415)	(2,415)	(202,112)	(92,964.16)			(295,076)	(2,415)	(4,490.61)			(6,906)
0			(3,461,356)	(3,461,356)	0			(46,330)	(46,330)	(3,461,356)	(126,304.39)			(3,587,660)	(46,330)	(61,984.89)			(108,314)
0			1,287	1,287	0			35	35	1,287	819.02			2,106	35	(34.67)			1
0			483,546	483,546	0			11,201	11,201	483,546	(35,113.36)			448,433	11,201	7,758.34			18,959
0			(589,791)	(589,791)	0			(3,549)	(3,549)	(589,791)	(199,883.95)			(789,675)	(3,549)	(14,011.61)			(17,560)
0			(357,149)	(357,149)	0			(136)	(136)	(357,149)	252,826.38			(104,323)	(136)	(7,047.18)			(7,183)
0			(984,056)	(984,056)	0			(3,173)	(3,173)	(984,056)	1,309,073.93944297			325,018	(3,173)	50,752.94			47,579
0			4,105,038	4,105,038	0			56,962	56,962	4,105,038	(481,625.740509866)		72,654	3,696,066	56,962	###########			119,966
(12,002)	0	(12,002)		(0)	60,111	(12,211)	47,901		(0)	(0)				(0)	(0)				(0)
7,975	2,829	10,803		0	(32,884)	119	(32,766)		0	0				0	0				0
8,140	(15,603)	35,323		(42,786)	2,589	(485)	3,012		(908)	(42,786)	(0.15)			(42,786)	(908)	(796.96)			(1,705)
0				0	0				0	0				0	0				0
0	(15,124)			(15,124)	0	5,602			5,602	(15,124)	(91,442)			(106,566)	5,602	(17,993)			(12,391)
0				0	0				0	0	209,801			209,801	0	272			272
0				0	0				0	0				0	0				0
0	0	0	4,105,038	4,105,038	0	0	0	56,962	56,962	4,105,038	(481,626)	0	72,654	3,696,066	56,962	63,004	0	0	119,966
4,113	(27,897)	34,125	(4,171,634)	(4,229,543)	29,816	(6,975)	18,147	(33,544)	(28,850)	(4,229,543)	1,507,437	0	0	(2,722,106)	(28,850)	(27,573)	0	0	(56,422)
4,113	(27,897)	34,125	(66,595)	(124,504)	29,816	(6,975)	18,147	23,418	28,112	(124,504)	1,025,811	0	72,654	973,960	28,112	35,432	0	0	63,544
0				0	0				0	0	1,218,706	0		1,218,706	0			85,771	85,771
4,113	(27,897)	34,125	(66,595)	(124,504)	29,816	(6,975)	18,147	23,418	28,112	(124,504)	2,244,517	0	72,654	2,192,666	28,112	35,432	0	85,771	149,315

2019				Projected Interest on Dec-31-18 Balances					2.1.7 RRR		
Principal Disposition during 2019 - instructed by OEB	Interest Disposition during 2019 - instructed by OEB	Closing Principal Balances as of Dec 31, 2018 Adjusted for Disposition during 2019	Closing Interest Balances as of Dec 31, 2018 Adjusted for Disposition during 2019	Projected Interest from Jan 1, 2019 to Dec 31, 2019 on Dec 31, 2018 balance adjusted for disposition during 2019 [2]	Projected Interest from Jan 1, 2020 to Apr 30, 2020 on Dec 31, 2018 balance adjusted for disposition during 2019 [2]	Total Interest	Total Claim	Account Disposition: Yes/No?	As of Dec 31, 2018	Variance RRR vs. 2018 Balance *(Principal + Interest)*	
937,998	27,636	280,625	3,189	27,389		30,578	311,203		1,249,449	0	
(202,112)	(6,038)	(92,964)	(868)	(6,632)		(7,500)	(100,464)		(301,982)	0	
(3,461,356)	(108,374)	(126,304)	60	(80,633)		(80,573)	(206,877)		(3,226,476)	469,498	The variance does not match the value in cell BV25. Please provide an explanation of the variance in the Manager's Summary
		2,106	1	47		48	0		2,106	0	
483,546	19,868	(35,113)	(909)	10,079		9,169	(25,944)		467,392	0	
(589,791)	(14,121)	(199,884)	(3,440)	(17,748)		(21,188)	(221,072)		(807,236)	0	
(357,149)	(6,538)	252,826	(645)	(2,345)		(2,990)	249,836		(111,506)	0	
(984,056)	(20,813)	1,309,074	68,392	7,305		75,697	1,384,771	Yes	372,597	0	
4,105,038	130,545	(408,972)	(10,579)	83,069		72,490	(336,482)	Yes	3,743,379	(72,654)	Please provide an explanation of the variance in the Manager's Summary
		(0)	(0)	(0)		(0)	0	No	0	0	
		0	0	0		0	0	No	0	(1)	
(42,786)	(1,675)	(1)	(30)	0		(30)	(30)	Yes	150,707	195,198	Please provide an explanation of the variance in the Manager's Summary
		0	0	0		0	0	No	0	0	
		(106,566)	(12,391)	(2,395)		(14,786)	(121,352)	Yes	(118,957)	0	
		209,801	272	4,715		4,987	0	No	14,875	(195,198)	Please provide an explanation of the variance in the Manager's Summary
110,668	(20,491)	(110,668)	20,491	0		20,491	0	No		0	
4,105,038	130,545	(408,972)	(10,579)	83,069	0	72,490	(336,482)		3,743,379	(72,654)	
(4,105,038)	(130,545)	1,382,932	74,123	(60,218)	0	13,905	1,270,071		(2,778,529)	(1)	
(110,668)	0	973,960	63,544	22,851	0	86,395	933,589		964,850	(72,654)	
		1,218,706	85,771			85,771	1,304,477		1,057,619	(246,858)	Please provide an explanation of the variance in the Manager's Summary
(110,668)	0	2,192,666	149,315	22,851	0	172,167	2,238,066		2,022,469	(319,512)	

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Data on this worksheet has been populated using your most recent RRR filing.

If you have identified any issues, please contact the OEB.
Have you confirmed the accuracy of the data below?

If a distributor uses the actual GA price to bill non-RPP Class B customers for an entire rate class, it must exclude these customers from the allocation of the GA balance and the calculation of the resulting rate riders. These rate classes are not to be charged/refunded the general GA rate rider as they did not contribute to the GA balance.

Please contact the OEB to make adjustments to the IRM rate generator for this situation.

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers (excluding WMP)	Metered kW for Non-RPP Customers (excluding WMP)	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*	1595 Recovery Proportion (2015) [1]	1595 Recovery Proportion (2017) [1]	1568 LRAM Variance Account Class Allocation ($ amounts)	Number of Customers for Residential and GS<50 classes [3]
RESIDENTIAL SERVICE CLASSIFICATION	kWh	591,698,674	0	8,990,734	0	0	0	591,698,674	0	55%	10%	433,369	65,690
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	173,870,024	0	24,965,365	0	0	0	173,870,024	0	13%	6%	470,361	5,543
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	kW	576,460,353	1,559,074	493,219,683	1,344,637	4,255,918	8,395	572,204,435	1,550,679	24%	62%	328,437	
GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	kW	216,013,961	476,945	216,013,961	476,944	0	0	216,013,961	476,945	4%	15%	17,964	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	4,343,401	0	0	0	0	0	4,343,401	0	0%	0%		
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	97,108	270	0	0	0	0	97,108	270	3%	0%		
STREET LIGHTING SERVICE CLASSIFICATION	kW	5,561,834	17,274	5,561,834	17,274	0	0	5,561,834	17,274	0%	1%	54,346	
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	49,737,763	109,071	49,737,763	109,071	0	0	49,737,763	109,071		5%		
	Total	1,617,783,118	2,162,634	798,489,340	1,947,926	4,255,918	8,395	1,613,527,200	2,154,239	100%	100%	1,304,477	71,233

Threshold Test

Total Claim (including Account 1568)	$2,238,066	
Total Claim for Threshold Test (All Group 1 Accounts)	$933,589	
Threshold Test (Total claim per kWh) [2]	$0.0006	**Claim does not meet the threshold test.**

As per Section 3.2.5 of the 2019 Filing Requirements for Electricity Distribution Rate Applications, an applicant may elect to dispose of the Group 1 account balances below the threshold. If doing so, please select YES from the adjacent drop-down cell and also indicate so in the Manager's Summary. If not, please select NO.

NO

[1] Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

[2] The Threshold Test does not include the amount in 1568.

[3] The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

No input required. This workshseet allocates the deferral/variance account balances (Group 1 and 1568) to the appropriate classes as per EDDVAR dated July 31, 2009

Allocation of Group 1 Accounts (including Account 1568)

Rate Class	% of Total kWh	% of Customer Numbers **	% of Total kWh adjusted for WMP	1550	1551	1580 (allocated based on Total less WMP)	1584	1586	1588 (allocated based on Total less WMP)	1595_(2015)	1595_(2017)	1568
RESIDENTIAL SERVICE CLASSIFICATION	36.6%	92.2%	36.7%									433,369
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	10.7%	7.8%	10.8%									470,361
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	35.6%	0.0%	35.5%									328,437
GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	13.4%	0.0%	13.4%									17,964
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.3%	0.0%	0.3%									0
SENTINEL LIGHTING SERVICE CLASSIFICATION	0.0%	0.0%	0.0%									0
STREET LIGHTING SERVICE CLASSIFICATION	0.3%	0.0%	0.3%									54,346
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	3.1%	0.0%	3.1%									0
Total	100.0%	100.0%	100.0%	0	0	0	0	0	0	0	0	1,304,477

*** Used to allocate Account 1551 as this account records the variances arising from the Smart Metering Entity Charges to Residential and GS<50 customers.*

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Input required at cells C13 and C14. This workshseet calculates rate riders related to the Deferral/Variance Account Disposition (if applicable) and rate riders for Account 1568. Rate Riders will not be generated for the microFIT class.

Default Rate Rider Recovery Period (in months)	12	
DVA Proposed Rate Rider Recovery Period (in months)	12	Rate Rider Recovery to be used below
LRAM Proposed Rate Rider Recovery Period (in months)	24	Rate Rider Recovery to be used below

Rate Class	Unit	Total Metered kWh	Metered kW or kVA	Total Metered kWh less WMP consumption	Total Metered kW less WMP consumption	Allocation of Group 1 Account Balances to All Classes [2]	Allocation of Group 1 Account Balances to Non-WMP Classes Only (If Applicable) [2]	Deferral/Variance Account Rate Rider [2]	Deferral/Variance Account Rate Rider for Non-WMP (if applicable) [2]	Account 1568 Rate Rider	Revenue Reconcilation [1]
RESIDENTIAL SERVICE CLASSIFICATION	kWh	591,698,674	0	591,698,674	0	0		0.0000	0.0000	0.0004	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	173,870,024	0	173,870,024	0	0		0.0000	0.0000	0.0014	
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	kW	576,460,353	1,559,074	572,204,435	1,550,679	0		0.0000	0.0000	0.1053	
GENERAL SERVICE 1,000 KW AND GREATER SERVICE	kW	216,013,961	476,945	216,013,961	476,945	0		0.0000	0.0000	0.0188	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	4,343,401	0	4,343,401	0	0		0.0000	0.0000	0.0000	
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	97,108	270	97,108	270	0		0.0000	0.0000	0.0000	
STREET LIGHTING SERVICE CLASSIFICATION	kW	5,561,834	17,274	5,561,834	17,274	0		0.0000	0.0000	1.5730	
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	49,737,763	109,071	49,737,763	109,071	0		0.0000	0.0000	0.0000	
											0.00

[1] When calculating the revenue reconciliation for distributors with Class A customers, the balances of sub-account 1580-CBR Class B will not be taken into consideration if there are Class A customers since the rate riders, if any, are calculated separately.

[2] Only for rate classes with WMP customers are the Deferral/Variance Account Rate Riders for Non-WMP (column H and J) calculated separately. For all rate classes without WMP customers, balances in account 1580 and 1588 are included in column G and disposed through a combined Deferral/Variance Account and Rate Rider.

Summary - Sharing of Tax Change Forecast Amounts

	2014	2020
OEB-Approved Rate Base	$ 184,255,129	$ 184,255,129
OEB-Approved Regulatory Taxable Income	$ 195,149	$ 195,149
Federal General Rate		15.0%
Federal Small Business Rate		9.0%
Federal Small Business Rate (calculated effective rate)[1,2]		15.0%
Ontario General Rate		11.5%
Ontario Small Business Rate		3.5%
Ontario Small Business Rate (calculated effective rate)[1,2]		11.5%
Federal Small Business Limit		$ 500,000
Ontario Small Business Limit		$ 500,000
Federal Taxes Payable		$ 29,272
Provincial Taxes Payable		$ 22,442
Federal Effective Tax Rate		15.0%
Provincial Effective Tax Rate		11.5%
Combined Effective Tax Rate	15.5%	26.5%
Total Income Taxes Payable	$ 30,248	$ 51,714
OEB-Approved Total Tax Credits (enter as positive number)	$ 30,248	$ 30,248
Income Tax Provision	$ 0	$ 21,466
Grossed-up Income Taxes	$ 0	$ 29,206
Incremental Grossed-up Tax Amount		$ 29,206
Sharing of Tax Amount (50%)		**$ 14,603**

Notes

1. Regarding the small business deduction, if applicable,
   a. If taxable capital exceeds $15 million, the small business rate will not be applicable.
   b. If taxable capital is below $10 million, the small business rate would be applicable.
   c. If taxable capital is between $10 million and $15 million, the appropriate small business rate will be calculated.

2. The OEB's proxy for taxable capital is rate base.

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Calculation of Rebased Revenue Requirement and Allocation of Tax Sharing Amount. Enter data from the last OEB-Approved Cost of Service application in columns C through H.

As per Chapter 3 Filing Requirements, shared tax rate riders are based on a 1 year disposition.

Rate Class		Re-based Billed Customers or Connections	Re-based Billed kWh	Re-based Billed kW	Re-based Service Charge	Re-based Distribution Volumetric Rate kWh	Re-based Distribution Volumetric Rate kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Revenue Requirement from Rates	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Total % Revenue
RESIDENTIAL SERVICE CLASSIFICATION	kWh							0	0	0	0	0.0%	0.0%	0.0%	0.0%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh							0	0	0	0	0.0%	0.0%	0.0%	0.0%
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh							0	0	0	0	0.0%	0.0%	0.0%	0.0%
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
STREET LIGHTING SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
Total		0	0	0				0	0	0	0				0.0%

Rate Class		Total kWh (most recent RRR filing)	Total kW (most recent RRR filing)	Allocation of Tax Savings by Rate Class	Distribution Rate Rider	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	591,698,674		0	0.00	$/customer
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	173,870,024		0	0.0000	kWh
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	kW	576,460,353	1,559,074	0	0.0000	kW
GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	kW	216,013,961	476,945	0	0.0000	kW
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	4,343,401		0	0.0000	kWh
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	97,108	270	0	0.0000	kW
STREET LIGHTING SERVICE CLASSIFICATION	kW	5,561,834	17,274	0	0.0000	kW
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	49,737,763	109,071	0	0.0000	kW
Total		1,617,783,118	2,162,634	$14,603		

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Columns E and F have been populated with data from the most recent RRR filing. Rate classes that have more than one Network or Connection charge will notice that the cells are highlighted in green and unlocked.
If the data needs to be modified, please make the necessary adjustments and note the changes in your manager's summary. As well, the Loss Factor has been imported from Tab 2.

Rate Class	Rate Description	Unit	Rate	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Loss Adjusted Billed kWh	
Residential Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0077	591,698,674	0	1.0376	613,946,544	
Residential Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0058	591,698,674	0	1.0376	613,946,544	
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0071	173,870,024	0	1.0376	180,407,537	
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053	173,870,024	0	1.0376	180,407,537	
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.6658	51,278,750	138,687			
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519	525,181,603	1,420,387			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0110	51,278,750	138,687			
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761	525,181,603	1,420,387			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
General Service 1,000 kW And Greater Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519	216,013,961	476,945			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
General Service 1,000 kW And Greater Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761	216,013,961	476,945			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0071	4,343,401	0	1.0376	4,506,713	
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053	4,343,401	0	1.0376	4,506,713	
Sentinel Lighting Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	0.5344	97,108	270			
Sentinel Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.4031	97,108	270			
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.2239	5,561,834	17,274			
Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.6778	5,561,834	17,274			
Embedded Distributor Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.7519	49,737,763	109,071			
Embedded Distributor Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0761	49,737,763	109,071			

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Uniform Transmission Rates	Unit	2018	2019	2019 (July 1 - Dec 31)	2020
Rate Description		**Rate**	**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.61	$ 3.71	$ 3.83	$ 3.83
Line Connection Service Rate	kW	$ 0.95	$ 0.94	$ 0.96	$ 0.96
Transformation Connection Service Rate	kW	$ 2.34	$ 2.25	$ 2.30	$ 2.30

Hydro One Sub-Transmission Rates	Unit	2018	2019 (Jan 1 - June 30)	2019 (July 1 - Dec 31)	2020
Rate Description		**Rate**	**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.1942	$ 3.1942	$ 3.2915	$ 3.2915
Line Connection Service Rate	kW	$ 0.7710	$ 0.7710	$ 0.7877	$ 0.7877
Transformation Connection Service Rate	kW	$ 1.7493	$ 1.7493	$ 1.9755	$ 1.9755
Both Line and Transformation Connection Service Rate	kW	$ 2.5203	$ 2.5203	$ 2.7632	$ 2.7632

If needed, add extra host here. (I)	Unit	2018	2019		2020
Rate Description		**Rate**	**Rate**		**Rate**
Network Service Rate	kW				
Line Connection Service Rate	kW				
Transformation Connection Service Rate	kW				
Both Line and Transformation Connection Service Rate	kW	$ -	$ -		$ -

If needed, add extra host here. (II)	Unit	2018	2019		2020
Rate Description		**Rate**	**Rate**		**Rate**
Network Service Rate	kW				
Line Connection Service Rate	kW				
Transformation Connection Service Rate	kW				
Both Line and Transformation Connection Service Rate	kW	$ -	$ -		$ -

		Historical 2018	Current 2019	Forecast 2020
Low Voltage Switchgear Credit (if applicable, enter as a negative value)	$			

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

In the green shaded cells, enter billing detail for wholesale transmission for the same reporting period as the billing determinants on Tab 10. For Hydro One Sub-transmission Rates, if you are charged a combined Line and Transformer connection rate, please ensure that both the Line Connection and Transformation Connection columns are completed.
If any of the Hydro One Sub-transmission rates (column E, I and M) are highlighted in red, please double check the billing data entered in "Units Billed" and "Amount" columns. The highlighted rates do not match the Hydro One Sub-transmission rates approved for that time period. If data has been entered correctly, please provide explanation for the discrepancy in rates.

IESO	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	202,918	$3.61	$ 732,534	213,068	$0.95	$ 202,415	172,871	$2.34	$ 404,518	$ 606,933
February	188,548	$3.61	$ 680,658	194,930	$0.95	$ 185,184	160,730	$2.34	$ 376,108	$ 561,292
March	175,399	$3.61	$ 633,190	181,850	$0.95	$ 172,758	150,152	$2.34	$ 351,356	$ 524,113
April	169,023	$3.61	$ 610,173	182,851	$0.95	$ 173,708	151,137	$2.34	$ 353,661	$ 527,369
May	256,193	$3.61	$ 924,857	270,328	$0.95	$ 256,812	223,887	$2.34	$ 523,896	$ 780,707
June	265,376	$3.61	$ 958,007	286,848	$0.95	$ 272,506	234,828	$2.34	$ 549,498	$ 822,003
July	278,931	$3.61	$ 1,006,941	294,284	$0.95	$ 279,570	243,701	$2.34	$ 570,260	$ 849,830
August	271,975	$3.61	$ 981,830	279,437	$0.95	$ 265,465	230,239	$2.34	$ 538,759	$ 804,224
September	283,933	$3.61	$ 1,024,998	286,830	$0.95	$ 272,489	238,926	$2.34	$ 559,087	$ 831,575
October	203,261	$3.61	$ 733,772	215,514	$0.95	$ 204,738	170,458	$2.34	$ 398,872	$ 603,610
November	193,497	$3.61	$ 698,524	214,524	$0.95	$ 203,798	172,277	$2.34	$ 403,128	$ 606,926
December	184,521	$3.61	$ 666,121	207,535	$0.95	$ 197,158	174,455	$2.34	$ 408,225	$ 605,383
Total	2,673,575	$ 3.61	$ 9,651,606	2,827,999	$ 0.95	$ 2,686,599	2,323,661	$ 2.34	$ 5,437,367	$ 8,123,966

Hydro One	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	52,295	$3.1942	$ 167,042		$0.0000		52,295	$1.7493	$ 91,480	$ 91,480
February	48,723	$3.1942	$ 155,630		$0.0000		48,723	$1.7493	$ 85,230	$ 85,230
March	45,096	$3.1942	$ 144,045		$0.0000		45,096	$1.7493	$ 78,886	$ 78,886
April	47,361	$3.1942	$ 151,281		$0.0000		48,272	$1.7493	$ 84,442	$ 84,442
May	70,254	$3.1942	$ 224,405		$0.0000		70,254	$1.7493	$ 122,895	$ 122,895
June	63,284	$3.1942	$ 202,143		$0.0000		64,457	$1.7493	$ 112,755	$ 112,755
July	79,467	$3.1942	$ 253,833		$0.0000		79,467	$1.7493	$ 139,012	$ 139,012
August	77,704	$3.1942	$ 248,202		$0.0000		77,704	$1.7493	$ 135,928	$ 135,928
September	83,059	$3.1942	$ 265,307		$0.0000		83,059	$1.7493	$ 145,295	$ 145,295
October	45,817	$3.1942	$ 146,349		$0.0000		45,817	$1.7493	$ 80,148	$ 80,148
November	40,986	$3.1942	$ 130,919		$0.0000		40,986	$1.7493	$ 71,697	$ 71,697
December	49,594	$3.1942	$ 158,413		$0.0000		49,594	$1.7493	$ 86,755	$ 86,755
Total	703,641	$ 3.1942	$ 2,247,570	-	$ -	$ -	705,724	$ 1.7493	$ 1,234,523	$ 1,234,523

Add Extra Host Here (I) (if needed)	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January		$ -			$ -			$ -		$ -
February		$ -			$ -			$ -		$ -
March		$ -			$ -			$ -		$ -
April		$ -			$ -			$ -		$ -
May		$ -			$ -			$ -		$ -
June		$ -			$ -			$ -		$ -
July		$ -			$ -			$ -		$ -
August		$ -			$ -			$ -		$ -
September		$ -			$ -			$ -		$ -
October		$ -			$ -			$ -		$ -
November		$ -			$ -			$ -		$ -
December		$ -			$ -			$ -		$ -
Total	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -

Add Extra Host Here (II) (if needed)	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January		$ -			$ -			$ -		$ -
February		$ -			$ -			$ -		$ -
March		$ -			$ -			$ -		$ -
April		$ -			$ -			$ -		$ -
May		$ -			$ -			$ -		$ -
June		$ -			$ -			$ -		$ -
July		$ -			$ -			$ -		$ -
August		$ -			$ -			$ -		$ -
September		$ -			$ -			$ -		$ -
October		$ -			$ -			$ -		$ -
November		$ -			$ -			$ -		$ -
December		$ -			$ -			$ -		$ -
Total	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -

Total	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	255,213	$ 3.5248	$ 899,576	213,068	$ 0.9500	$ 202,415	225,166	$ 2.2028	$ 495,999	$ 698,413
February	237,271	$ 3.5246	$ 836,288	194,930	$ 0.9500	$ 185,184	209,453	$ 2.2026	$ 461,339	$ 646,522
March	220,495	$ 3.5250	$ 777,235	181,850	$ 0.9500	$ 172,758	195,248	$ 2.2036	$ 430,242	$ 602,999
April	216,384	$ 3.5190	$ 761,455	182,851	$ 0.9500	$ 173,708	199,409	$ 2.1970	$ 438,102	$ 611,811
May	326,447	$ 3.5205	$ 1,149,262	270,328	$ 0.9500	$ 256,812	294,141	$ 2.1989	$ 646,791	$ 903,602
June	328,660	$ 3.5299	$ 1,160,150	286,848	$ 0.9500	$ 272,506	299,285	$ 2.2128	$ 662,252	$ 934,758
July	358,398	$ 3.5178	$ 1,260,774	294,284	$ 0.9500	$ 279,570	323,168	$ 2.1947	$ 709,272	$ 988,842
August	349,679	$ 3.5176	$ 1,230,032	279,437	$ 0.9500	$ 265,465	307,943	$ 2.1909	$ 674,687	$ 940,152
September	366,992	$ 3.5159	$ 1,290,305	286,830	$ 0.9500	$ 272,489	321,985	$ 2.1876	$ 704,382	$ 976,871
October	249,078	$ 3.5335	$ 880,121	215,514	$ 0.9500	$ 204,738	216,275	$ 2.2149	$ 479,020	$ 683,758
November	234,483	$ 3.5373	$ 829,443	214,524	$ 0.9500	$ 203,798	213,263	$ 2.2265	$ 474,826	$ 678,623
December	234,115	$ 3.5219	$ 824,534	207,535	$ 0.9500	$ 197,158	224,049	$ 2.2092	$ 494,980	$ 692,138
Total	3,377,216	$ 3.52	$ 11,899,175	2,827,999	$ 0.95	$ 2,686,599	3,029,385	$ 2.20	$ 6,671,890	$ 9,358,489
								Low Voltage Switchgear Credit (if applicable)		$ -
								Total including deduction for Low Voltage Switchgear Credit		$ 9,358,489

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

The purpose of this sheet is to calculate the expected billing when current 2019 Uniform Transmission Rates are applied against historical 2018 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	202,918	$ 3.7100	$ 752,826	213,068	$ 0.9400	$ 200,284	172,871	$ 2.2500	$ 388,960	$ 589,244
February	188,548	$ 3.7100	$ 699,513	194,930	$ 0.9400	$ 183,234	160,730	$ 2.2500	$ 361,643	$ 544,877
March	175,399	$ 3.7100	$ 650,730	181,850	$ 0.9400	$ 170,939	150,152	$ 2.2500	$ 337,842	$ 508,781
April	169,023	$ 3.7100	$ 627,075	182,851	$ 0.9400	$ 171,880	151,137	$ 2.2500	$ 340,058	$ 511,938
May	256,193	$ 3.7100	$ 950,476	270,328	$ 0.9400	$ 254,108	223,887	$ 2.2500	$ 503,746	$ 757,854
June	265,376	$ 3.7100	$ 984,545	286,848	$ 0.9400	$ 269,637	234,828	$ 2.2500	$ 528,363	$ 798,000
July	278,931	$ 3.8300	$ 1,068,306	294,284	$ 0.9600	$ 282,513	243,701	$ 2.3000	$ 560,512	$ 843,025
August	271,975	$ 3.8300	$ 1,041,664	279,437	$ 0.9600	$ 268,260	230,239	$ 2.3000	$ 529,550	$ 797,809
September	283,933	$ 3.8300	$ 1,087,463	286,830	$ 0.9600	$ 275,357	238,926	$ 2.3000	$ 549,530	$ 824,887
October	203,261	$ 3.8300	$ 778,490	215,514	$ 0.9600	$ 206,893	170,458	$ 2.3000	$ 392,053	$ 598,947
November	193,497	$ 3.8300	$ 741,094	214,524	$ 0.9600	$ 205,943	172,277	$ 2.3000	$ 396,237	$ 602,180
December	184,521	$ 3.8300	$ 706,715	207,535	$ 0.9600	$ 199,234	174,455	$ 2.3000	$ 401,247	$ 600,480
Total	2,673,575	$ 3.77	$ 10,088,897	2,827,999	$ 0.95	$ 2,688,282	2,323,661	$ 2.28	$ 5,289,740	$ 7,978,022

Hydro One	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	52,295	$ 3.1942	$ 167,042	-	$ 0.7710	$ -	52,295	$ 1.7493	$ 91,480	$ 91,480
February	48,723	$ 3.1942	$ 155,630	-	$ 0.7710	$ -	48,723	$ 1.7493	$ 85,230	$ 85,230
March	45,096	$ 3.1942	$ 144,045	-	$ 0.7710	$ -	45,096	$ 1.7493	$ 78,886	$ 78,886
April	47,361	$ 3.1942	$ 151,281	-	$ 0.7710	$ -	48,272	$ 1.7493	$ 84,442	$ 84,442
May	70,254	$ 3.1942	$ 224,405	-	$ 0.7710	$ -	70,254	$ 1.7493	$ 122,895	$ 122,895
June	63,284	$ 3.1942	$ 202,143	-	$ 0.7710	$ -	64,457	$ 1.7493	$ 112,755	$ 112,755
July	79,467	$ 3.2915	$ 261,566	-	$ 0.7877	$ -	79,467	$ 1.9755	$ 156,987	$ 156,987
August	77,704	$ 3.2915	$ 255,763	-	$ 0.7877	$ -	77,704	$ 1.9755	$ 153,504	$ 153,504
September	83,059	$ 3.2915	$ 273,389	-	$ 0.7877	$ -	83,059	$ 1.9755	$ 164,083	$ 164,083
October	45,817	$ 3.2915	$ 150,807	-	$ 0.7877	$ -	45,817	$ 1.9755	$ 90,512	$ 90,512
November	40,986	$ 3.2915	$ 134,907	-	$ 0.7877	$ -	40,986	$ 1.9755	$ 80,969	$ 80,969
December	49,594	$ 3.2915	$ 163,239	-	$ 0.7877	$ -	49,594	$ 1.9755	$ 97,973	$ 97,973
Total	703,641	$ 3.25	$ 2,284,215	-	$ -	$ -	705,724	$ 1.87	$ 1,319,716	$ 1,319,716

Add Extra Host Here (I)	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
February	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
March	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
April	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
May	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
June	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
July	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
August	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
September	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
October	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
November	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
December	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
Total	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -

Add Extra Host Here (II)	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
February	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
March	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
April	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
May	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
June	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
July	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
August	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
September	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
October	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
November	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
December	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
Total	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -

Total	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	255,213	$ 3.6043	$ 919,868	213,068	$ 0.9400	$ 200,284	225,166	$ 2.1337	$ 480,440	$ 680,724
February	237,271	$ 3.6041	$ 855,143	194,930	$ 0.9400	$ 183,234	209,453	$ 2.1335	$ 446,873	$ 630,107
March	220,495	$ 3.6045	$ 794,775	181,850	$ 0.9400	$ 170,939	195,248	$ 2.1344	$ 416,728	$ 587,667
April	216,384	$ 3.5971	$ 778,357	182,851	$ 0.9400	$ 171,880	199,409	$ 2.1288	$ 424,500	$ 596,380
May	326,447	$ 3.5990	$ 1,174,881	270,328	$ 0.9400	$ 254,108	294,141	$ 2.1304	$ 626,641	$ 880,749
June	328,660	$ 3.6107	$ 1,186,688	286,848	$ 0.9400	$ 269,637	299,285	$ 2.1422	$ 641,118	$ 910,755
July	358,398	$ 3.7106	$ 1,329,871	294,284	$ 0.9600	$ 282,513	323,168	$ 2.2202	$ 717,499	$ 1,000,012
August	349,679	$ 3.7103	$ 1,297,427	279,437	$ 0.9600	$ 268,260	307,943	$ 2.2181	$ 683,054	$ 951,313
September	366,992	$ 3.7081	$ 1,360,852	286,830	$ 0.9600	$ 275,357	321,985	$ 2.2163	$ 713,613	$ 988,970
October	249,078	$ 3.7309	$ 929,297	215,514	$ 0.9600	$ 206,893	216,275	$ 2.2313	$ 482,565	$ 689,459
November	234,483	$ 3.7359	$ 876,000	214,524	$ 0.9600	$ 205,943	213,263	$ 2.2376	$ 477,206	$ 683,149
December	234,115	$ 3.7159	$ 869,954	207,535	$ 0.9600	$ 199,234	224,049	$ 2.2282	$ 499,220	$ 698,453
Total	3,377,216	$ 3.66	$ 12,373,113	2,827,999	$ 0.95	$ 2,688,282	3,029,385	$ 2.18	$ 6,609,456	$ 9,297,738
							Low Voltage Switchgear Credit (if applicable)			$ -
							Total including deduction for Low Voltage Switchgear Credit			$ 9,297,738

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

The purpose of this sheet is to calculate the expected billing when forecasted 2019 Uniform Transmission Rates are applied against historical 2018 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	202,918	$ 3.8300	$ 777,176	213,068	$ 0.9600	$ 204,545	172,871	$ 2.3000	$ 397,603	$ 602,149
February	188,548	$ 3.8300	$ 722,139	194,930	$ 0.9600	$ 187,133	160,730	$ 2.3000	$ 369,679	$ 556,812
March	175,399	$ 3.8300	$ 671,778	181,850	$ 0.9600	$ 174,576	150,152	$ 2.3000	$ 345,350	$ 519,926
April	169,023	$ 3.8300	$ 647,358	182,851	$ 0.9600	$ 175,537	151,137	$ 2.3000	$ 347,615	$ 523,152
May	256,193	$ 3.8300	$ 981,219	270,328	$ 0.9600	$ 259,515	223,887	$ 2.3000	$ 514,940	$ 774,455
June	265,376	$ 3.8300	$ 1,016,390	286,848	$ 0.9600	$ 275,374	234,828	$ 2.3000	$ 540,104	$ 815,478
July	278,931	$ 3.8300	$ 1,068,306	294,284	$ 0.9600	$ 282,513	243,701	$ 2.3000	$ 560,512	$ 843,025
August	271,975	$ 3.8300	$ 1,041,664	279,437	$ 0.9600	$ 268,260	230,239	$ 2.3000	$ 529,550	$ 797,809
September	283,933	$ 3.8300	$ 1,087,463	286,830	$ 0.9600	$ 275,357	238,926	$ 2.3000	$ 549,530	$ 824,887
October	203,261	$ 3.8300	$ 778,490	215,514	$ 0.9600	$ 206,893	170,458	$ 2.3000	$ 392,053	$ 598,947
November	193,497	$ 3.8300	$ 741,094	214,524	$ 0.9600	$ 205,943	172,277	$ 2.3000	$ 396,237	$ 602,180
December	184,521	$ 3.8300	$ 706,715	207,535	$ 0.9600	$ 199,234	174,455	$ 2.3000	$ 401,247	$ 600,480
Total	2,673,575	$ 3.83	$ 10,239,792	2,827,999	$ 0.96	$ 2,714,879	2,323,661	$ 2.30	$ 5,344,420	$ 8,059,299

Hydro One	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	52,295	$ 3.2915	$ 172,130	-	$ 0.7877	$ -	52,295	$ 1.9755	$ 103,310	$ 103,310
February	48,723	$ 3.2915	$ 160,370	-	$ 0.7877	$ -	48,723	$ 1.9755	$ 96,252	$ 96,252
March	45,096	$ 3.2915	$ 148,432	-	$ 0.7877	$ -	45,096	$ 1.9755	$ 89,087	$ 89,087
April	47,361	$ 3.2915	$ 155,890	-	$ 0.7877	$ -	48,272	$ 1.9755	$ 95,361	$ 95,361
May	70,254	$ 3.2915	$ 231,241	-	$ 0.7877	$ -	70,254	$ 1.9755	$ 138,786	$ 138,786
June	63,284	$ 3.2915	$ 208,300	-	$ 0.7877	$ -	64,457	$ 1.9755	$ 127,335	$ 127,335
July	79,467	$ 3.2915	$ 261,566	-	$ 0.7877	$ -	79,467	$ 1.9755	$ 156,987	$ 156,987
August	77,704	$ 3.2915	$ 255,763	-	$ 0.7877	$ -	77,704	$ 1.9755	$ 153,504	$ 153,504
September	83,059	$ 3.2915	$ 273,389	-	$ 0.7877	$ -	83,059	$ 1.9755	$ 164,083	$ 164,083
October	45,817	$ 3.2915	$ 150,807	-	$ 0.7877	$ -	45,817	$ 1.9755	$ 90,512	$ 90,512
November	40,986	$ 3.2915	$ 134,907	-	$ 0.7877	$ -	40,986	$ 1.9755	$ 80,969	$ 80,969
December	49,594	$ 3.2915	$ 163,239	-	$ 0.7877	$ -	49,594	$ 1.9755	$ 97,973	$ 97,973
Total	703,641	$ 3.29	$ 2,316,034	-	$ -	$ -	705,724	$ 1.98	$ 1,394,158	$ 1,394,158

Add Extra Host Here (I)	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
February	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
March	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
April	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
May	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
June	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
July	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
August	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
September	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
October	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
November	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
December	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
Total	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -

Add Extra Host Here (II)	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
February	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
March	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
April	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
May	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
June	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
July	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
August	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
September	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
October	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
November	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
December	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -
Total	-	$ -	$ -	-	$ -	$ -	-	$ -	$ -	$ -

Total	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	255,213	$ 3.72	$ 949,306	213,068	$ 0.96	$ 204,545	225,166	$ 2.22	$ 500,913	$ 705,458
February	237,271	$ 3.72	$ 882,509	194,930	$ 0.96	$ 187,133	209,453	$ 2.22	$ 465,931	$ 653,063
March	220,495	$ 3.72	$ 820,211	181,850	$ 0.96	$ 174,576	195,248	$ 2.23	$ 434,436	$ 609,012
April	216,384	$ 3.71	$ 803,248	182,851	$ 0.96	$ 175,537	199,409	$ 2.22	$ 442,976	$ 618,513
May	326,447	$ 3.71	$ 1,212,460	270,328	$ 0.96	$ 259,515	294,141	$ 2.22	$ 653,727	$ 913,241
June	328,660	$ 3.73	$ 1,224,690	286,848	$ 0.96	$ 275,374	299,285	$ 2.23	$ 667,440	$ 942,814
July	358,398	$ 3.71	$ 1,329,871	294,284	$ 0.96	$ 282,513	323,168	$ 2.22	$ 717,499	$ 1,000,012
August	349,679	$ 3.71	$ 1,297,427	279,437	$ 0.96	$ 268,260	307,943	$ 2.22	$ 683,054	$ 951,313
September	366,992	$ 3.71	$ 1,360,852	286,830	$ 0.96	$ 275,357	321,985	$ 2.22	$ 713,613	$ 988,970
October	249,078	$ 3.73	$ 929,297	215,514	$ 0.96	$ 206,893	216,275	$ 2.23	$ 482,565	$ 689,459
November	234,483	$ 3.74	$ 876,000	214,524	$ 0.96	$ 205,943	213,263	$ 2.24	$ 477,206	$ 683,149
December	234,115	$ 3.72	$ 869,954	207,535	$ 0.96	$ 199,234	224,049	$ 2.23	$ 499,220	$ 698,453
Total	3,377,216	$ 3.72	$ 12,555,826	2,827,999	$ 0.96	$ 2,714,879	3,029,385	$ 2.22	$ 6,738,578	$ 9,453,457
							Low Voltage Switchgear Credit (if applicable)			$ -
							Total including deduction for Low Voltage Switchgear Credit			$ 9,453,457

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

The purpose of this table is to re-align the current RTS Network Rates to recover current wholesale network costs.

Rate Class	Rate Description	Unit	Current RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR Network
Residential Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0077	613,946,544	0	4,727,388	39.5%	4,886,604	0.0080
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0071	180,407,537	0	1,280,894	10.7%	1,324,033	0.0073
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.6658		138,687	369,711	3.1%	382,163	2.7556
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519		1,420,387	3,908,764	32.7%	4,040,409	2.8446
General Service 1,000 kW And Greater Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519		476,945	1,312,505	11.0%	1,356,709	2.8446
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0071	4,506,713	0	31,998	0.3%	33,075	0.0073
Sentinel Lighting Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	0.5344		270	144	0.0%	149	0.5524
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.2239		17,274	38,416	0.3%	39,709	2.2988
Embedded Distributor Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.7519		109,071	300,152	2.5%	310,261	2.8446

The purpose of this table is to re-align the current RTS Connection Rates to recover current wholesale connection costs.

Rate Class	Rate Description	Unit	Current RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR-Connection
Residential Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0058	613,946,544	0	3,560,890	39.5%	3,672,807	0.0060
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053	180,407,537	0	956,160	10.6%	986,212	0.0055
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0110		138,687	278,899	3.1%	287,665	2.0742
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761		1,420,387	2,948,866	32.7%	3,041,547	2.1414
General Service 1,000 kW And Greater Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761		476,945	990,186	11.0%	1,021,307	2.1414
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053	4,506,713	0	23,886	0.3%	24,636	0.0055
Sentinel Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.4031		270	109	0.0%	112	0.4158
Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.6778		17,274	28,982	0.3%	29,893	1.7305
Embedded Distributor Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0761		109,071	226,442	2.5%	233,559	2.1414

The purpose of this table is to update the re-aligned RTS Network Rates to recover future wholesale network costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Forecast Wholesale Billing	Proposed RTSR-Network
Residential Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0080	613,946,544	0	4,886,604	39.5%	4,958,764	**0.0081**
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0073	180,407,537	0	1,324,033	10.7%	1,343,585	**0.0074**
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.7556		138,687	382,163	3.1%	387,806	**2.7963**
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.8446		1,420,387	4,040,409	32.7%	4,100,073	**2.8866**
General Service 1,000 kW And Greater Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.8446		476,945	1,356,709	11.0%	1,376,744	**2.8866**
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	$/kWh	0.0073	4,506,713	0	33,075	0.3%	33,564	**0.0074**
Sentinel Lighting Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	0.5524		270	149	0.0%	151	**0.5606**
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.2988		17,274	39,709	0.3%	40,296	**2.3327**
Embedded Distributor Service Classification	Retail Transmission Rate - Network Service Rate	$/kW	2.8446		109,071	310,261	2.5%	314,843	**2.8866**

The purpose of this table is to update the re-aligned RTS Connection Rates to recover future wholesale connection costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Forecast Wholesale Billing	Proposed RTSR-Connection
Residential Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0060	613,946,544	0	3,672,807	39.5%	3,734,319	**0.0061**
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0055	180,407,537	0	986,212	10.6%	1,002,729	**0.0056**
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0742		138,687	287,665	3.1%	292,482	**2.1089**
General Service 50 To 999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.1414		1,420,387	3,041,547	32.7%	3,092,488	**2.1772**
General Service 1,000 kW And Greater Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.1414		476,945	1,021,307	11.0%	1,038,411	**2.1772**
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0055	4,506,713	0	24,636	0.3%	25,049	**0.0056**
Sentinel Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.4158		270	112	0.0%	114	**0.4227**
Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.7305		17,274	29,893	0.3%	30,394	**1.7595**
Embedded Distributor Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.1414		109,071	233,559	2.5%	237,471	**2.1772**

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

If applicable, please enter any adjustments related to the revenue to cost ratio model into columns C and E. The Price Escalator and Stretch Factor have been set at the 2018 values and will be updated by OEB staff at a later date.

Price Escalator	1.20%	Productivity Factor	0.00%
Choose Stretch Factor Group	III	Price Cap Index	0.90%
Associated Stretch Factor Value	0.30%		

Rate Class	Current MFC	MFC Adjustment from R/C Model	Current Volumetric Charge	DVR Adjustment from R/C Model	Price Cap Index to be Applied to MFC and DVR	Proposed MFC	Proposed Volumetric Charge
RESIDENTIAL SERVICE CLASSIFICATION	29.39				0.90%	29.65	0.0000
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	37.03		0.0164		0.90%	37.36	0.0165
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	126.35		4.9409		0.90%	127.49	4.9854
GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	3626.56		2.8677		0.90%	3,659.20	2.8935
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	10.47		0.0099		0.90%	10.56	0.0100
SENTINEL LIGHTING SERVICE CLASSIFICATION	2.86		48.6158		0.90%	2.89	49.0533
STREET LIGHTING SERVICE CLASSIFICATION	3.93		24.149		0.90%	3.97	24.3663
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	5410.38		2.955		0.90%	5,459.07	2.9816
microFIT SERVICE CLASSIFICATION	5.4					5.4	

If applicable, Wheeling Service Rate will be adjusted for PCI on Sheet 19.

Update the following rates if an OEB Decision has been issued at the time of completing this application

Regulatory Charges

Effective Date of Regulatory Charges		January 1, 2019	January 1, 2020
Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0030	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0005	0.0005
Standard Supply Service - Administrative Charge (if applicable)	$/kWh	0.25	0.25

Time-of-Use RPP Prices

As of		May 1, 2019
Off-Peak	$/kWh	0.0650
Mid-Peak	$/kWh	0.0940
On-Peak	$/kWh	0.1340

Smart Meter Entity Charge (SME)

Smart Meter Entity Charge (SME)	$	0.57

Distribution Rate Protection (DRP) Amount (Applicable to LDCs under the Distribution Rate Protection program):	$	36.86

Miscellaneous Service Charges

Wireline Pole Attachment Charge	Unit	Current charge	Inflation factor *	Proposed charge ** / ***
Specific charge for access to the power poles - per pole/year	$	43.63	1.20%	44.15

Retail Service Charges		Current charge	Inflation factor*	Proposed charge ***
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00	1.20%	101.20
Monthly fixed charge, per retailer	$	40.00	1.20%	40.48
Monthly variable charge, per customer, per retailer	$/cust.	1.00	1.20%	1.01
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.60	1.20%	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.60)	1.20%	(0.61)
Service Transaction Requests (STR)				-
Request fee, per request, applied to the requesting party	$	0.50	1.20%	0.51
Processing fee, per request, applied to the requesting party	$	1.00	1.20%	1.01
Electronic Business Transaction (EBT) system, applied to the requesting party				
up to twice a year		no charge		no charge
more than twice a year, per request (plus incremental delivery costs)	$	4.00	1.20%	4.05
Notice of switch letter charge, per letter	$	2.00	1.20%	2.02

* inflation factor subject to change pending OEB approved inflation rate effective in 2020
** applicable only to LDCs in which the province-wide pole attachment charge applies
*** subject to change pending OEB order on miscellaneous service charges

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

In the Green Cells below, enter all proposed rate riders/rates. Please note that the following rates/charges are to be entered in the Final Tariff Schedule tab: Monthly Service Charge, Distribution Volumetric Rate and Retail Transmission Rates.
In column A, select the rate rider descriptions from the drop-down list in the blue cells. If the rate description cannot be found, enter the rate rider descriptions in the green cells. The rate rider description must begin with "Rate Rider for".
In column B, choose the associated unit from the drop-down menu.
In column C, enter the rate. All rate riders with a "$" unit should be rounded to 2 decimal places and all others rounded to 4 decimal places.
In column E, enter the expiry date (e.g. April 30, 2020) or description of the expiry date in text (e.g. the effective date of the next cost of service-based rate order).
In column G, a sub-total (A or B) should already be assigned to the rate rider unless the rate description was entered into a green cell in column A. In these particular cases, from the dropdown list in column G, choose the appropriate sub-total (A or B) . Sub-Total A refers to rates/rate riders that Not considered as pass through costs (eg: LRAMVA and ICM/ACM rate riders). Sub-Total B refers to rates/rate riders that are considered pass through costs.

RESIDENTIAL SERVICE CLASSIFICATION	UNIT	RATE	DATE (EG: April 30, 2020)		SUB-TOTAL
Rate Rider for Recovery of Incremental Capital	$	0.38	- effective until	December 31,2020	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	UNIT	RATE	DATE (EG: April 30, 2020)		SUB-TOTAL
Rate Rider for Recovery of Incremental Capital	$	0.48	- effective until	December 31,2020	A
Rate Rider for Recovery of Incremental Capital	$/kWh	0.0002	- effective until	December 31,2020	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	UNIT	RATE	DATE (EG: April 30, 2020)		SUB-TOTAL
Rate Rider for Recovery of Incremental Capital	$	1.65	- effective until	December 31,2020	A
Rate Rider for Recovery of Incremental Capital	$/kW	0.0644	- effective until	December 31,2020	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	UNIT	RATE	DATE (EG: April 30, 2020)		SUB-TOTAL
Rate Rider for Recovery of Incremental Capital	$	47.28	- effective until	December 31,2020	A
Rate Rider for Recovery of Incremental Capital	$/kW	0.0374	- effective until	December 31,2020	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	UNIT	RATE	DATE (EG: April 30, 2020)		SUB-TOTAL
Rate Rider for Recovery of Incremental Capital	$	0.14	- effective until	December 31,2020	A
Rate Rider for Recovery of Incremental Capital	$/kWh	0.0001	- effective until	December 31,2020	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

SENTINEL LIGHTING SERVICE CLASSIFICATION	UNIT	RATE	DATE (EG: April 30, 2020)		SUB-TOTAL
Rate Rider for Recovery of Incremental Capital	$	0.04	- effective until	December 31,2020	A
Rate Rider for Recovery of Incremental Capital	$/kW	0.6337	- effective until	December 31,2020	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

STREET LIGHTING SERVICE CLASSIFICATION	UNIT	RATE	DATE (EG: April 30, 2020)		SUB-TOTAL
Rate Rider for Recovery of Incremental Capital	$	0.05	- effective until	December 31,2020	A
Rate Rider for Recovery of Incremental Capital	$/kW	0.3148	- effective until	December 31,2020	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

Oakville Hydro Electricity Distribution 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-2019-0059

RESIDENTIAL SERVICE CLASSIFICATION

This class refers to the supply of electrical energy to detached and semi-detached residential buildings as well as farms as defined in the local zoning by-laws. Where the residential dwelling comprises the entire electrical load of a farm, it is defined as a residential service. Where electricity is provided to a combined residential and business (including agricultural usage) and the service does not provide for separate metering, the classification shall be at the discretion of Oakville Hydro and shall be based on such considerations as the estimated predominant 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	29.65
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.38
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kWh	0.0004
Retail Transmission Rate - Network Service Rate	$/kWh	0.0081
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0061

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

Oakville Hydro Electricity Distribution 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-2019-0059

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers and whose monthly average peak demand in the preceding twelve months is less than 50kW. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. Note: Apartment buildings or multi-unit complexes and subdivisions that are not individually metered are treated as General Service. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	37.36
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.48
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Distribution Volumetric Rate	$/kWh	0.0165
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kWh	0.0014
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0056

Oakville Hydro Electricity Distribution 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-2019-0059

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

Oakville Hydro Electricity Distribution 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-2019-0059

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is in the range of 50 to 999 kW. There are two sub categories within this class, those being non-interval and interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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 Energt 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.

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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	127.49
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	1.65
Distribution Volumetric Rate	$/kW	4.9854
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kW	0.1053
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.0644

Oakville Hydro Electricity Distribution 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-2019-0059
Retail Transmission Rate - Network Service Rate	$/kW	2.7963
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.8866
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.1089
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.1772

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

Oakville Hydro Electricity Distribution 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-2019-0059

GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is equal to or greater than 1,000 kW. These accounts will all be interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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.

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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	3,659.20
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	47.28
Distribution Volumetric Rate	$/kW	2.8935
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kW	0.0188

Oakville Hydro Electricity Distribution 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-2019-0059
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.0374
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.8866
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.1772

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

Oakville Hydro Electricity Distribution 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-2019-0059

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, pedestrian X-Walk signals/beacons, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information and 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	10.56
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.14
Distribution Volumetric Rate	$/kWh	0.0100
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kWh	0.0001
Retail Transmission Rate - Network Service Rate	$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0056

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

Oakville Hydro Electricity Distribution 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-2019-0059

SENTINEL LIGHTING SERVICE CLASSIFICATION

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

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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	2.89
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.04
Distribution Volumetric Rate	$/kW	49.0533
Low Voltage Service Rate	$/kW	0.0255
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.6337
Retail Transmission Rate - Network Service Rate	$/kW	0.5606
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.4227

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

Oakville Hydro Electricity Distribution 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-2019-0059

STREET LIGHTING SERVICE CLASSIFICATION

All services supplied to street lighting equipment owned by or operated for the Municipality, the Region or the Province of Ontario shall be classified as Street Lighting Service. Street Lighting plant, facilities, or equipment owned by the customer are subject to the Electrical Safety Authority (ESA) requirements and Oakville Hydro specifications. Class B consumers are defined in accordance with O. Reg. 429/04.Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	3.97
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$	0.05
Distribution Volumetric Rate	$/kW	24.3663
Low Voltage Service Rate	$/kW	0.1061
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2020) - effective until December 31, 2021	$/kW	1.5730
Rate Rider for Recovery of Incremental Capital - effective until December 31, 2020	$/kW	0.3148
Retail Transmission Rate - Network Service Rate	$/kW	2.3327
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.7595

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licenced by the Ontario Energy Board, which is provided electricity by means of this distributor's facilities. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5,459.07
Distribution Volumetric Rate	$/kW	2.9816
Low Voltage Service Rate	$/kW	0.1313
Retail Transmission Rate - Network Service Rate	$/kW	2.8866
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.1772

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

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

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.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for General Service > 50 to 999kW customers that own their transformers (per kW of billing demand/month)	$/kW	(0.50)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

SPECIFIC SERVICE CHARGES

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Customer Administration

Statement of account	$	15.00
Pulling post dated cheques	$	15.00
Duplicate invoices for previous billing	$	15.00
Easement letter	$	15.00
Account history	$	15.00
Credit reference/credit check (plus credit agency costs)	$	15.00
Returned cheque (plus bank charges)	$	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	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/reconnect at meter - during regular hours	$	65.00
Disconnect/reconnect at meter - after regular hours	$	185.00
Disconnect/reconnect at pole - during regular hours	$	185.00
Disconnect/reconnect at pole - after regular hours	$	415.00

Other

Special meter reads	$	30.00
Service call (after first service call in a 12-month period) - during regular hours	$	30.00
Service call (after first service call in a 12-month period) - after regular hours	$	165.00
Temporary service - install & remove - overhead - no transformer	$	500.00
Temporary service - install & remove - underground - no transformer	$	300.00
Specific charge for access to the power poles - $/pole/year (with the exception of wireless attachments)	$	44.15

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2020

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EB-2019-0059

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 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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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	$	101.20
Monthly Fixed Charge, per retailer	$	40.48
Monthly Variable Charge, per customer, per retailer	$/cust.	1.01
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	$	1.01
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)	$	4.05

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	1.0376
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0272
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. **To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to section 3.2.3 of the Chapter 3 Filing Requirements For Electricity Distribution Rate Applications.**

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:
1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of May 2018 of $0.1117/kWh (IESO's Monthly Market Report for May 2018, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Table 1

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	**Units**	**RPP? Non-RPP Retailer? Non-RPP Other?**	**Current Loss Factor** (eg: 1.0351)	**Proposed Loss Factor**	**Consumption (kWh)**	**Demand kW (if applicable)**	**RTSR Demand or Demand-Interval?**	**Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connections).**
RESIDENTIAL SERVICE CLASSIFICATION	kWh	RPP	1.0376	1.0376	750		CONSUMPTION	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	RPP	1.0376	1.0376	2,000		CONSUMPTION	
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	kW	Non-RPP (Other)	1.0376	1.0376	200,000	500	EMAND - INTERVAL	
GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	kW	Non-RPP (Other)	1.0376	1.0376	1,000,000	2,200	EMAND - INTERVAL	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	RPP	1.0376	1.0376	250		DEMAND	1
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	RPP	1.0376	1.0376	335	1	DEMAND	1
STREET LIGHTING SERVICE CLASSIFICATION	kW	Non-RPP (Other)	1.0376	1.0376	150,000	480	DEMAND	4,000
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	Non-RPP (Other)	1.0376	1.0376	2,810,800	6,000	DEMAND	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	RPP	1.0376	1.0376	250		CONSUMPTION	
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				
Add additional scenarios if required			1.0376	1.0376				

Table 2

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	Units	Sub-Total A		Sub-Total B		Sub-Total C		Total Total Bill	
		$	%	$	%	$	%	$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ (0.13)	-0.4%	$ 2.05	6.5%	$ 2.60	6.2%	$ 2.73	2.4%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	kWh	$ (4.46)	-5.7%	$ 0.77	1.0%	$ 2.02	1.9%	$ 2.12	0.7%
GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 120.99	4.7%	$ (581.68)	-17.3%	$ (463.78)	-8.0%	$ (524.07)	-1.6%
GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION - Non-RPP	kW	$ 237.88	2.4%	$ (3,067.00)	-22.6%	$ (2,548.24)	-10.5%	$ (2,879.51)	-1.8%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	$ 0.28	2.2%	$ 0.90	6.8%	$ 1.05	6.4%	$ 1.19	2.7%
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	kW	$ 1.14	2.2%	$ 6.68	14.2%	$ 6.72	14.0%	$ 7.60	8.7%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 1,394.69	5.1%	$ 946.49	3.4%	$ 1,037.93	3.5%	$ 1,172.86	2.1%
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 208.29	0.9%	$ (10,940.31)	-31.2%	$ (9,525.51)	-14.9%	$ (10,763.83)	-2.4%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ (0.13)	-0.4%	$ 0.50	1.6%	$ 0.69	2.0%	$ 0.72	1.2%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	750	kWh
Demand	-	kW
Current Loss Factor	1.0376	
Proposed/Approved Loss Factor	1.0376	

	Current OEB-Approved			Proposed			Impact		
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change	
Monthly Service Charge	$ 29.39	1	$ 29.39	$ 29.65	1	$ 29.65	$ 0.26	0.88%	
Distribution Volumetric Rate	$ -	750	$ -	$ -	750	$ -	$ -		
Fixed Rate Riders	$ 0.77	1	$ 0.77	$ 0.38	1	$ 0.38	$ (0.39)	-50.65%	
Volumetric Rate Riders	$ 0.0004	750	$ 0.30	$ 0.0004	750	$ 0.30	$ -	0.00%	
Sub-Total A (excluding pass through)			**$ 30.46**			**$ 30.33**	**$ (0.13)**	**-0.43%**	
Line Losses on Cost of Power	$ 0.0824	28	$ 2.32	$ 0.0824	28	$ 2.32	$ -	0.00%	
Total Deferral/Variance Account Rate Riders	-$ 0.0034	750	$ (2.55)	$ -	750	$ -	$ 2.55	-100.00%	
CBR Class B Rate Riders	$ 0.0003	750	$ 0.23	$ -	750	$ -	$ (0.23)	-100.00%	
GA Rate Riders	$ -	750	$ -	$ -	750	$ -	$ -		
Low Voltage Service Charge	$ 0.0004	750	$ 0.30	$ 0.0004	750	$ 0.30	$ -	0.00%	
Smart Meter Entity Charge (if applicable)	$ 0.57	1	$ 0.57	$ 0.57	1	$ 0.57	$ -	0.00%	
Additional Fixed Rate Riders	$ 0.14	1	$ 0.14	$ -	1	$ -	$ (0.14)	-100.00%	
Additional Volumetric Rate Riders		750	$ -	$ -	750	$ -	$ -		
Sub-Total B - Distribution (includes Sub-Total A)			**$ 31.47**			**$ 33.52**	**$ 2.05**	**6.53%**	
RTSR - Network	$ 0.0077	778	$ 5.99	$ 0.0081	778	$ 6.30	$ 0.31	5.19%	*In the manager's summary, discuss the reas*
RTSR - Connection and/or Line and Transformation Connection	$ 0.0058	778	$ 4.51	$ 0.0061	778	$ 4.75	$ 0.23	5.17%	*In the manager's summary, discuss the reas*
Sub-Total C - Delivery (including Sub-Total B)			**$ 41.97**			**$ 44.57**	**$ 2.60**	**6.19%**	
Wholesale Market Service Charge (WMSC)	$ 0.0034	778	$ 2.65	$ 0.0034	778	$ 2.65	$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	$ 0.0005	778	$ 0.39	$ 0.0005	778	$ 0.39	$ -	0.00%	
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%	
TOU - Mid Peak	$ 0.0940	128	$ 11.99	$ 0.0940	128	$ 11.99	$ -	0.00%	
TOU - On Peak	$ 0.1340	135	$ 18.09	$ 0.1340	135	$ 18.09	$ -	0.00%	
Total Bill on TOU (before Taxes)			**$ 107.02**			**$ 109.62**	**$ 2.60**	**2.43%**	
HST	13%		$ 13.91	13%		$ 14.25	$ 0.34	2.43%	
8% Rebate	8%		$ (8.56)	8%		$ (8.77)	$ (0.21)		
Total Bill on TOU			**$ 112.37**			**$ 115.10**	**$ 2.73**	**2.43%**	

Customer Class:	GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	2,000	kWh
Demand	-	kW
Current Loss Factor	1.0376	
Proposed/Approved Loss Factor	1.0376	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 37.03	1	$ 37.03	$ 37.36	1	$ 37.36	$ 0.33	0.89%
Distribution Volumetric Rate	$ 0.0164	2000	$ 32.80	$ 0.0165	2000	$ 33.00	$ 0.20	0.61%
Fixed Rate Riders	$ 2.27	1	$ 2.27	$ 0.48	1	$ 0.48	$ (1.79)	-78.85%
Volumetric Rate Riders	$ 0.0032	2000	$ 6.40	$ 0.0016	2000	$ 3.20	$ (3.20)	-50.00%
Sub-Total A (excluding pass through)			**$ 78.50**			**$ 74.04**	**$ (4.46)**	**-5.68%**
Line Losses on Cost of Power	$ 0.0824	75	$ 6.19	$ 0.0824	75	$ 6.19	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0031	2,000	$ (6.20)	$ -	2,000	$ -	$ 6.20	-100.00%
CBR Class B Rate Riders	$ 0.0003	2,000	$ 0.60	$ -	2,000	$ -	$ (0.60)	-100.00%
GA Rate Riders	$ -	2,000	$ -	$ -	2,000	$ -	$ -	
Low Voltage Service Charge	$ 0.0003	2,000	$ 0.60	$ 0.0003	2,000	$ 0.60	$ -	0.00%
Smart Meter Entity Charge (if applicable)	$ 0.57	1	$ 0.57	$ 0.57	1	$ 0.57	$ -	0.00%
Additional Fixed Rate Riders	$ 0.37	1	$ 0.37	$ -	1	$ -	$ (0.37)	-100.00%
Additional Volumetric Rate Riders		2,000	$ -	$ -	2,000	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 80.63**			**$ 81.40**	**$ 0.77**	**0.95%**
RTSR - Network	$ 0.0071	2,075	$ 14.73	$ 0.0074	2,075	$ 15.36	$ 0.62	4.23%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0053	2,075	$ 11.00	$ 0.0056	2,075	$ 11.62	$ 0.62	5.66%
Sub-Total C - Delivery (including Sub-Total B)			**$ 106.37**			**$ 108.38**	**$ 2.02**	**1.89%**
Wholesale Market Service Charge (WMSC)	$ 0.0034	2,075	$ 7.06	$ 0.0034	2,075	$ 7.06	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0005	2,075	$ 1.04	$ 0.0005	2,075	$ 1.04	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0940	340	$ 31.96	$ 0.0940	340	$ 31.96	$ -	0.00%
TOU - On Peak	$ 0.1340	360	$ 48.24	$ 0.1340	360	$ 48.24	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 279.41**			**$ 281.42**	**$ 2.02**	**0.72%**
HST	13%		$ 36.32	13%		$ 36.59	$ 0.26	0.72%
8% Rebate	8%		$ (22.35)	8%		$ (22.51)	$ (0.16)	
Total Bill on TOU			**$ 293.38**			**$ 295.49**	**$ 2.12**	**0.72%**

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In the manager's summary, discuss the reas

Customer Class:	**GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	
Consumption	**200,000**	**kWh**
Demand	**500**	**kW**
Current Loss Factor	**1.0376**	
Proposed/Approved Loss Factor	**1.0376**	

	Current OEB-Approved			Proposed			Impact		
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change	
Monthly Service Charge	$ 126.35	1	$ 126.35	$ 127.49	1	$ 127.49	$ 1.14	0.90%	
Distribution Volumetric Rate	$ 4.9409	500	$ 2,470.45	$ 4.9854	500	$ 2,492.70	$ 22.25	0.90%	
Fixed Rate Riders	$ -	1	$ -	$ 1.65	1	$ 1.65	$ 1.65		
Volumetric Rate Riders	-$ 0.0222	500	$ (11.10)	$ 0.1697	500	$ 84.85	$ 95.95	-864.41%	
Sub-Total A (excluding pass through)			**$ 2,585.70**			**$ 2,706.69**	**$ 120.99**	**4.68%**	
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -		
Total Deferral/Variance Account Rate Riders	-$ 1.1246	500	$ (562.30)	$ -	500	$ -	$ 562.30	-100.00%	
CBR Class B Rate Riders	$ 0.1210	500	$ 60.50	$ -	500	$ -	$ (60.50)	-100.00%	
GA Rate Riders	$ 0.0060	200,000	$ 1,200.00	$ -	200,000	$ -	$ (1,200.00)	-100.00%	
Low Voltage Service Charge	$ 0.1313	500	$ 65.65	$ 0.1313	500	$ 65.65	$ -	0.00%	
Smart Meter Entity Charge (if applicable)	$ -	1	$ -	$ -	1	$ -	$ -		
Additional Fixed Rate Riders	$ 4.47	1	$ 4.47	$ -	1	$ -	$ (4.47)	-100.00%	
Additional Volumetric Rate Riders		500	$ -	$ -	500	$ -	$ -		
Sub-Total B - Distribution (includes Sub-Total A)			**$ 3,354.02**			**$ 2,772.34**	**$ (581.68)**	**-17.34%**	
RTSR - Network	$ 2.7519	500	$ 1,375.95	$ 2.8866	500	$ 1,443.30	$ 67.35	4.89%	*In the manager's summary, discuss the reas*
RTSR - Connection and/or Line and Transformation Connection	$ 2.0761	500	$ 1,038.05	$ 2.1772	500	$ 1,088.60	$ 50.55	4.87%	*In the manager's summary, discuss the reas*
Sub-Total C - Delivery (including Sub-Total B)			**$ 5,768.02**			**$ 5,304.24**	**$ (463.78)**	**-8.04%**	
Wholesale Market Service Charge (WMSC)	$ 0.0034	207,520	$ 705.57	$ 0.0034	207,520	$ 705.57	$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	$ 0.0005	207,520	$ 103.76	$ 0.0005	207,520	$ 103.76	$ -	0.00%	
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%	
Average IESO Wholesale Market Price	$ 0.1101	207,520	$ 22,847.95	$ 0.1101	207,520	$ 22,847.95	$ -	0.00%	
Total Bill on Average IESO Wholesale Market Price			**$ 29,425.55**			**$ 28,961.77**	**$ (463.78)**	**-1.58%**	
HST	13%		$ 3,825.32	13%		$ 3,765.03	$ (60.29)	-1.58%	
Total Bill on Average IESO Wholesale Market Price			**$ 33,250.87**			**$ 32,726.80**	**$ (524.07)**	**-1.58%**	

Customer Class:	GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Other)	
Consumption	1,000,000	kWh
Demand	2,200	kW
Current Loss Factor	1.0376	
Proposed/Approved Loss Factor	1.0376	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 3,626.56	1	$ 3,626.56	$ 3,659.20	1	$ 3,659.20	$ 32.64	0.90%
Distribution Volumetric Rate	$ 2.8677	2200	$ 6,308.94	$ 2.8935	2200	$ 6,365.70	$ 56.76	0.90%
Fixed Rate Riders	$ -	1	$ -	$ 47.28	1	$ 47.28	$ 47.28	
Volumetric Rate Riders	$ 0.0102	2200	$ 22.44	$ 0.0562	2200	$ 123.64	$ 101.20	450.98%
Sub-Total A (excluding pass through)			**$ 9,957.94**			**$ 10,195.82**	**$ 237.88**	**2.39%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	-$ 1.3617	2,200	$ (2,995.74)	$ -	2,200	$ -	$ 2,995.74	-100.00%
CBR Class B Rate Riders	$ 0.1220	2,200	$ 268.40	$ -	2,200	$ -	$ (268.40)	-100.00%
GA Rate Riders	$ 0.0060	1,000,000	$ 6,000.00	$ -	1,000,000	$ -	$ (6,000.00)	-100.00%
Low Voltage Service Charge	$ 0.1313	2,200	$ 288.86	$ 0.1313	2,200	$ 288.86	$ -	0.00%
Smart Meter Entity Charge (if applicable)	$ -	1	$ -	$ -	1	$ -	$ -	
Additional Fixed Rate Riders	$ 32.22	1	$ 32.22	$ -	1	$ -	$ (32.22)	-100.00%
Additional Volumetric Rate Riders		2,200	$ -	$ -	2,200	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 13,551.68**			**$ 10,484.68**	**$ (3,067.00)**	**-22.63%**
RTSR - Network	$ 2.7519	2,200	$ 6,054.18	$ 2.8866	2,200	$ 6,350.52	$ 296.34	4.89%
RTSR - Connection and/or Line and Transformation Connection	$ 2.0761	2,200	$ 4,567.42	$ 2.1772	2,200	$ 4,789.84	$ 222.42	4.87%
Sub-Total C - Delivery (including Sub-Total B)			**$ 24,173.28**			**$ 21,625.04**	**$ (2,548.24)**	**-10.54%**
Wholesale Market Service Charge (WMSC)	$ 0.0034	1,037,600	$ 3,527.84	$ 0.0034	1,037,600	$ 3,527.84	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0005	1,037,600	$ 518.80	$ 0.0005	1,037,600	$ 518.80	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1101	1,037,600	$ 114,239.76	$ 0.1101	1,037,600	$ 114,239.76	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 142,459.93**			**$ 139,911.69**	**$ (2,548.24)**	**-1.79%**
HST	13%		$ 18,519.79	13%		$ 18,188.52	$ (331.27)	-1.79%
Total Bill on Average IESO Wholesale Market Price			**$ 160,979.72**			**$ 158,100.21**	**$ (2,879.51)**	**-1.79%**

In the manager's summary, discuss the reas

In the manager's summary, discuss the reas

Customer Class:	**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**
RPP / Non-RPP:	**RPP**
Consumption	**250** kWh
Demand	**-** kW
Current Loss Factor	**1.0376**
Proposed/Approved Loss Factor	**1.0376**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 10.47	1	$ 10.47	$ 10.56	1	$ 10.56	$ 0.09	0.86%
Distribution Volumetric Rate	$ 0.0099	250	$ 2.48	$ 0.0100	250	$ 2.50	$ 0.02	1.01%
Fixed Rate Riders	$ -	1	$ -	$ 0.14	1	$ 0.14	$ 0.14	
Volumetric Rate Riders	$ -	250	$ -	$ 0.0001	250	$ 0.03	$ 0.03	
Sub-Total A (excluding pass through)			**$ 12.95**			**$ 13.23**	**$ 0.28**	**2.16%**
Line Losses on Cost of Power	$ 0.0824	9	$ 0.77	$ 0.0824	9	$ 0.77	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0030	250	$ (0.75)	$ -	250	$ -	$ 0.75	-100.00%
CBR Class B Rate Riders	$ 0.0003	250	$ 0.08	$ -	250	$ -	$ (0.08)	-100.00%
GA Rate Riders	$ -	250	$ -	$ -	250	$ -	$ -	
Low Voltage Service Charge	$ 0.0003	250	$ 0.08	$ 0.0003	250	$ 0.08	$ -	0.00%
Smart Meter Entity Charge (if applicable)	$ -	1	$ -	$ -	1	$ -	$ -	
Additional Fixed Rate Riders	$ 0.06	1	$ 0.06	$ -	1	$ -	$ (0.06)	-100.00%
Additional Volumetric Rate Riders		250	$ -	$ -	250	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 13.18**			**$ 14.07**	**$ 0.90**	**6.79%**
RTSR - Network	$ 0.0071	259	$ 1.84	$ 0.0074	259	$ 1.92	$ 0.08	4.23% *In the manager's summary, discuss the reas*
RTSR - Connection and/or Line and Transformation Connection	$ 0.0053	259	$ 1.37	$ 0.0056	259	$ 1.45	$ 0.08	5.66% *In the manager's summary, discuss the reas*
Sub-Total C - Delivery (including Sub-Total B)			**$ 16.40**			**$ 17.45**	**$ 1.05**	**6.41%**
Wholesale Market Service Charge (WMSC)	$ 0.0034	259	$ 0.88	$ 0.0034	259	$ 0.88	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0005	259	$ 0.13	$ 0.0005	259	$ 0.13	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
TOU - Off Peak	$ 0.0650	163	$ 10.56	$ 0.0650	163	$ 10.56	$ -	0.00%
TOU - Mid Peak	$ 0.0940	43	$ 4.00	$ 0.0940	43	$ 4.00	$ -	0.00%
TOU - On Peak	$ 0.1340	45	$ 6.03	$ 0.1340	45	$ 6.03	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 38.24**			**$ 39.30**	**$ 1.05**	**2.75%**
HST	13%		$ 4.97	13%		$ 5.11	$ 0.14	2.75%
Total Bill on TOU			**$ 43.22**			**$ 44.40**	**$ 1.19**	**2.75%**

Customer Class:	SENTINEL LIGHTING SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP
Consumption	335 kWh
Demand	1 kW
Current Loss Factor	1.0376
Proposed/Approved Loss Factor	1.0376

	Current OEB-Approved			Proposed			Impact		
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change	
Monthly Service Charge	$ 2.86	1	$ 2.86	$ 2.89	1	$ 2.89	$ 0.03	1.05%	
Distribution Volumetric Rate	$ 48.6158	1	$ 48.62	$ 49.0533	1	$ 49.05	$ 0.44	0.90%	
Fixed Rate Riders	$ -	1	$ -	$ 0.04	1	$ 0.04	$ 0.04		
Volumetric Rate Riders	$ -	1	$ -	$ 0.6337	1	$ 0.63	$ 0.63		
Sub-Total A (excluding pass through)			**$ 51.48**			**$ 52.62**	**$ 1.14**	**2.22%**	
Line Losses on Cost of Power	$ 0.0824	13	$ 1.04	$ 0.0824	13	$ 1.04	$ -	0.00%	
Total Deferral/Variance Account Rate Riders	-$ 5.6914	1	$ (5.69)	$ -	1	$ -	$ 5.69	-100.00%	
CBR Class B Rate Riders	$ 0.1151	1	$ 0.12	$ -	1	$ -	$ (0.12)	-100.00%	
GA Rate Riders	$ -	335	$ -	$ -	335	$ -	$ -		
Low Voltage Service Charge	$ 0.0255	1	$ 0.03	$ 0.0255	1	$ 0.03	$ -	0.00%	
Smart Meter Entity Charge (if applicable)	$ -	1	$ -	$ -	1	$ -	$ -		
Additional Fixed Rate Riders	$ 0.04	1	$ 0.04	$ -	1	$ -	$ (0.04)	-100.00%	
Additional Volumetric Rate Riders		1	$ -	$ -	1	$ -	$ -		
Sub-Total B - Distribution (includes Sub-Total A)			**$ 47.00**			**$ 53.68**	**$ 6.68**	**14.21%**	
RTSR - Network	$ 0.5344	1	$ 0.53	$ 0.5606	1	$ 0.56	$ 0.03	4.90%	*In the manager's summary, discuss the reas*
RTSR - Connection and/or Line and Transformation Connection	$ 0.4031	1	$ 0.40	$ 0.4227	1	$ 0.42	$ 0.02	4.86%	*In the manager's summary, discuss the reas*
Sub-Total C - Delivery (including Sub-Total B)			**$ 47.94**			**$ 54.66**	**$ 6.72**	**14.02%**	
Wholesale Market Service Charge (WMSC)	$ 0.0034	348	$ 1.18	$ 0.0034	348	$ 1.18	$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	$ 0.0005	348	$ 0.17	$ 0.0005	348	$ 0.17	$ -	0.00%	
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%	
TOU - Off Peak	$ 0.0650	218	$ 14.15	$ 0.0650	218	$ 14.15	$ -	0.00%	
TOU - Mid Peak	$ 0.0940	57	$ 5.35	$ 0.0940	57	$ 5.35	$ -	0.00%	
TOU - On Peak	$ 0.1340	60	$ 8.08	$ 0.1340	60	$ 8.08	$ -	0.00%	
Total Bill on TOU (before Taxes)			**$ 77.13**			**$ 83.86**	**$ 6.72**	**8.72%**	
HST	13%		$ 10.03	13%		$ 10.90	$ 0.87	8.72%	
Total Bill on TOU			**$ 87.16**			**$ 94.76**	**$ 7.60**	**8.72%**	

Customer Class:	**STREET LIGHTING SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	
Consumption	**150,000**	**kWh**
Demand	**480**	**kW**
Current Loss Factor	**1.0376**	
Proposed/Approved Loss Factor	**1.0376**	

	Current OEB-Approved			Proposed			Impact		
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change	
Monthly Service Charge	$ 3.93	4000	$ 15,720.00	$ 3.97	4000	$ 15,880.00	$ 160.00	1.02%	
Distribution Volumetric Rate	$ 24.1490	480	$ 11,591.52	$ 24.3663	480	$ 11,695.82	$ 104.30	0.90%	
Fixed Rate Riders	$ -	4000	$ -	$ 0.05	4000	$ 200.00	$ 200.00		
Volumetric Rate Riders	-$ 0.0505	480	$ (24.24)	$ 1.8878	480	$ 906.14	$ 930.38	-3838.22%	
Sub-Total A (excluding pass through)			**$ 27,287.28**			**$ 28,681.97**	**$ 1,394.69**	**5.11%**	
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -		
Total Deferral/Variance Account Rate Riders	-$ 1.0553	480	$ (506.54)	$ -	480	$ -	$ 506.54	-100.00%	
CBR Class B Rate Riders	$ 0.1139	480	$ 54.67	$ -	480	$ -	$ (54.67)	-100.00%	
GA Rate Riders	$ 0.0060	150,000	$ 900.00	$ -	150,000	$ -	$ (900.00)	-100.00%	
Low Voltage Service Charge	$ 0.1061	480	$ 50.93	$ 0.1061	480	$ 50.93	$ -	0.00%	
Smart Meter Entity Charge (if applicable)	$ -	1	$ -	$ -	1	$ -	$ -		
Additional Fixed Rate Riders	$ 0.07	1	$ 0.07	$ -	1	$ -	$ (0.07)	-100.00%	
Additional Volumetric Rate Riders		480	$ -	$ -	480	$ -	$ -		
Sub-Total B - Distribution (includes Sub-Total A)			**$ 27,786.41**			**$ 28,732.90**	**$ 946.49**	**3.41%**	
RTSR - Network	$ 2.2239	480	$ 1,067.47	$ 2.3327	480	$ 1,119.70	$ 52.22	4.89%	*In the manager's summary, discuss the reas*
RTSR - Connection and/or Line and Transformation Connection	$ 1.6778	480	$ 805.34	$ 1.7595	480	$ 844.56	$ 39.22	4.87%	*In the manager's summary, discuss the reas*
Sub-Total C - Delivery (including Sub-Total B)			**$ 29,659.22**			**$ 30,697.15**	**$ 1,037.93**	**3.50%**	
Wholesale Market Service Charge (WMSC)	$ 0.0034	155,640	$ 529.18	$ 0.0034	155,640	$ 529.18	$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	$ 0.0005	155,640	$ 77.82	$ 0.0005	155,640	$ 77.82	$ -	0.00%	
Standard Supply Service Charge	$ 0.25	4000	$ 1,000.00	$ 0.25	4000	$ 1,000.00	$ -	0.00%	
Average IESO Wholesale Market Price	$ 0.1101	155,640	$ 17,135.96	$ 0.1101	155,640	$ 17,135.96	$ -	0.00%	
Total Bill on Average IESO Wholesale Market Price			**$ 48,402.18**			**$ 49,440.11**	**$ 1,037.93**	**2.14%**	
HST	13%		$ 6,292.28	13%		$ 6,427.21	$ 134.93	2.14%	
Total Bill on Average IESO Wholesale Market Price			**$ 54,694.47**			**$ 55,867.33**	**$ 1,172.86**	**2.14%**	

Customer Class:	**EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	
Consumption	**2,810,800**	**kWh**
Demand	**6,000**	**kW**
Current Loss Factor	**1.0376**	
Proposed/Approved Loss Factor	**1.0376**	

	Current OEB-Approved			Proposed			Impact		
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change	
Monthly Service Charge	$ 5,410.38	1	$ 5,410.38	$ 5,459.07	1	$ 5,459.07	$ 48.69	0.90%	
Distribution Volumetric Rate	$ 2.9550	6000	$ 17,730.00	$ 2.9816	6000	$ 17,889.60	$ 159.60	0.90%	
Fixed Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -		
Volumetric Rate Riders	$ -	6000	$ -	$ -	6000	$ -	$ -		
Sub-Total A (excluding pass through)			**$ 23,140.38**			**$ 23,348.67**	**$ 208.29**	**0.90%**	
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -		
Total Deferral/Variance Account Rate Riders	-$ 1.0687	6,000	$ (6,412.20)	$ -	6,000	$ -	$ 6,412.20	-100.00%	
CBR Class B Rate Riders	$ 0.1160	6,000	$ 696.00	$ -	6,000	$ -	$ (696.00)	-100.00%	
GA Rate Riders	$ 0.0060	2,810,800	$ 16,864.80	$ -	2,810,800	$ -	$ (16,864.80)	-100.00%	
Low Voltage Service Charge	$ 0.1313	6,000	$ 787.80	$ 0.1313	6,000	$ 787.80	$ -	0.00%	
Smart Meter Entity Charge (if applicable)	$ -	1	$ -	$ -	1	$ -	$ -		
Additional Fixed Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -		
Additional Volumetric Rate Riders		6,000	$ -	$ -	6,000	$ -	$ -		
Sub-Total B - Distribution (includes Sub-Total A)			**$ 35,076.78**			**$ 24,136.47**	**$ (10,940.31)**	**-31.19%**	
RTSR - Network	$ 2.7519	6,000	$ 16,511.40	$ 2.8866	6,000	$ 17,319.60	$ 808.20	4.89%	*In the manager's summary, discuss the reas*
RTSR - Connection and/or Line and Transformation Connection	$ 2.0761	6,000	$ 12,456.60	$ 2.1772	6,000	$ 13,063.20	$ 606.60	4.87%	*In the manager's summary, discuss the reas*
Sub-Total C - Delivery (including Sub-Total B)			**$ 64,044.78**			**$ 54,519.27**	**$ (9,525.51)**	**-14.87%**	
Wholesale Market Service Charge (WMSC)	$ 0.0034	2,916,486	$ 9,916.05	$ 0.0034	2,916,486	$ 9,916.05	$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	$ 0.0005	2,916,486	$ 1,458.24	$ 0.0005	2,916,486	$ 1,458.24	$ -	0.00%	
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%	
Average IESO Wholesale Market Price	$ 0.1101	2,916,486	$ 321,105.12	$ 0.1101	2,916,486	$ 321,105.12	$ -	0.00%	
Total Bill on Average IESO Wholesale Market Price			**$ 396,524.44**			**$ 386,998.93**	**$ (9,525.51)**	**-2.40%**	
HST	13%		$ 51,548.18	13%		$ 50,309.86	$ (1,238.32)	-2.40%	
Total Bill on Average IESO Wholesale Market Price			**$ 448,072.62**			**$ 437,308.79**	**$ (10,763.83)**	**-2.40%**	

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**
RPP / Non-RPP:	**RPP**
Consumption	**250** kWh
Demand	**-** kW
Current Loss Factor	**1.0376**
Proposed/Approved Loss Factor	**1.0376**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 29.39	1	$ 29.39	$ 29.65	1	$ 29.65	$ 0.26	0.88%
Distribution Volumetric Rate	$ -	250	$ -	$ -	250	$ -	$ -	
Fixed Rate Riders	$ 0.77	1	$ 0.77	$ 0.38	1	$ 0.38	$ (0.39)	-50.65%
Volumetric Rate Riders	$ 0.0004	250	$ 0.10	$ 0.0004	250	$ 0.10	$ -	0.00%
Sub-Total A (excluding pass through)			**$ 30.26**			**$ 30.13**	**$ (0.13)**	**-0.43%**
Line Losses on Cost of Power	$ 0.0824	9	$ 0.77	$ 0.0824	9	$ 0.77	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0034	250	$ (0.85)	$ -	250	$ -	$ 0.85	-100.00%
CBR Class B Rate Riders	$ 0.0003	250	$ 0.08	$ -	250	$ -	$ (0.08)	-100.00%
GA Rate Riders	$ -	250	$ -	$ -	250	$ -	$ -	
Low Voltage Service Charge	$ 0.0004	250	$ 0.10	$ 0.0004	250	$ 0.10	$ -	0.00%
Smart Meter Entity Charge (if applicable)	$ 0.57	1	$ 0.57	$ 0.57	1	$ 0.57	$ -	0.00%
Additional Fixed Rate Riders	$ 0.14	1	$ 0.14	$ -	1	$ -	$ (0.14)	-100.00%
Additional Volumetric Rate Riders		250	$ -	$ -	250	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 31.07**			**$ 31.57**	**$ 0.50**	**1.63%**
RTSR - Network	$ 0.0077	259	$ 2.00	$ 0.0081	259	$ 2.10	$ 0.10	5.19% *In the manager's summary, discuss the reas*
RTSR - Connection and/or Line and Transformation Connection	$ 0.0058	259	$ 1.50	$ 0.0061	259	$ 1.58	$ 0.08	5.17% *In the manager's summary, discuss the reas*
Sub-Total C - Delivery (including Sub-Total B)			**$ 34.57**			**$ 35.26**	**$ 0.69**	**1.99%**
Wholesale Market Service Charge (WMSC)	$ 0.0034	259	$ 0.88	$ 0.0034	259	$ 0.88	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0005	259	$ 0.13	$ 0.0005	259	$ 0.13	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
TOU - Off Peak	$ 0.0650	163	$ 10.56	$ 0.0650	163	$ 10.56	$ -	0.00%
TOU - Mid Peak	$ 0.0940	43	$ 4.00	$ 0.0940	43	$ 4.00	$ -	0.00%
TOU - On Peak	$ 0.1340	45	$ 6.03	$ 0.1340	45	$ 6.03	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 56.42**			**$ 57.11**	**$ 0.69**	**1.22%**
HST	13%		$ 7.33	13%		$ 7.42	$ 0.09	1.22%
8% Rebate	8%		$ (4.51)	8%		$ (4.57)	$ (0.05)	
Total Bill on TOU			**$ 59.24**			**$ 59.96**	**$ 0.72**	**1.22%**

Customer Class:	Add additional scenarios if required
RPP / Non-RPP:	
Consumption	kWh
Demand	kW
Current Loss Factor	
Proposed/Approved Loss Factor	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge		1	$ -		1	$ -	$ -	
Distribution Volumetric Rate		0	$ -		0	$ -	$ -	
Fixed Rate Riders		1	$ -		1	$ -	$ -	
Volumetric Rate Riders		0	$ -		0	$ -	$ -	
Sub-Total A (excluding pass through)			**$ -**			**$ -**	**$ -**	
Line Losses on Cost of Power	**$ 0.1101**	-	$ -	**$ 0.1101**	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders		-	$ -		-	$ -	$ -	
CBR Class B Rate Riders		-	$ -		-	$ -	$ -	
GA Rate Riders		-	$ -		-	$ -	$ -	
Low Voltage Service Charge		-	$ -		-	$ -	$ -	
Smart Meter Entity Charge (if applicable)	**$ -**	1	$ -	**$ -**	1	$ -	$ -	
Additional Fixed Rate Riders		1	$ -		1	$ -	$ -	
Additional Volumetric Rate Riders		-	$ -		-	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ -**			**$ -**	**$ -**	
RTSR - Network		-	$ -		-	$ -	$ -	
RTSR - Connection and/or Line and Transformation Connection		-	$ -		-	$ -	$ -	
Sub-Total C - Delivery (including Sub-Total B)			**$ -**			**$ -**	**$ -**	
Wholesale Market Service Charge (WMSC)	**$ 0.0034**	-	$ -	**$ 0.0034**	-	$ -	$ -	
Rural and Remote Rate Protection (RRRP)	**$ 0.0005**	-	$ -	**$ 0.0005**	-	$ -	$ -	
Standard Supply Service Charge	**$ 0.25**	1	$ 0.25	**$ 0.25**	1	**$ 0.25**	$ -	0.00%
TOU - Off Peak	**$ 0.0650**	-	$ -	**$ 0.0650**	-	$ -	$ -	
TOU - Mid Peak	**$ 0.0940**	-	$ -	**$ 0.0940**	-	$ -	$ -	
TOU - On Peak	**$ 0.1340**	-	$ -	**$ 0.1340**	-	$ -	$ -	
Non-RPP Retailer Avg. Price	**$ 0.1101**	-	$ -	**$ 0.1101**	-	$ -	$ -	
Average IESO Wholesale Market Price	**$ 0.1101**	-	$ -	**$ 0.1101**	-	$ -	$ -	
Total Bill on TOU (before Taxes)			**$ 0.25**			**$ 0.25**	**$ -**	**0.00%**
HST	13%		$ 0.03	13%		$ 0.03	$ -	0.00%
8% Rebate	8%		$ (0.02)	8%		$ (0.02)	$ -	
Total Bill on TOU			**$ 0.26**			**$ 0.26**	**$ -**	**0.00%**
Total Bill on Non-RPP Avg. Price			**$ 0.25**			**$ 0.25**	**$ -**	**0.00%**
HST	13%		$ 0.03	13%		$ 0.03	$ -	0.00%
8% Rebate	8%			8%				
Total Bill on Non-RPP Avg. Price			**$ 0.28**			**$ 0.28**	**$ -**	**0.00%**
Total Bill on Average IESO Wholesale Market Price			**$ 0.25**			**$ 0.25**	**$ -**	**0.00%**
HST	13%		$ 0.03	13%		$ 0.03	$ -	0.00%
8% Rebate	8%			8%				
Total Bill on Average IESO Wholesale Market Price			**$ 0.28**			**$ 0.28**	**$ -**	**0.00%**

APPENDIX 3 – CURRENT TARIFF OF RATES AND CHARGES

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Oakville Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

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

EB-2018-0059

RESIDENTIAL SERVICE CLASSIFICATION

This class refers to the supply of electrical energy to detached and semi-detached residential buildings as well as farms as defined in the local zoning by-laws. Where the residential dwelling comprises the entire electrical load of a farm, it is defined as a residential service. Where electricity is provided to a combined residential and business (including agricultural usage) and the service does not provide for separate metering, the classification shall be at the discretion of Oakville Hydro and shall be based on such considerations as the estimated predominant 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	29.39
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	0.14
Rate Rider for Recovery of Stranded Meter Assets - effective until April 30, 2019	$	0.77
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kWh	(0.0034)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kWh	0.0003
Retail Transmission Rate - Network Service Rate	$/kWh	0.0077
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0058

Ontario Energy Board

Incentive Rate-setting Mechanism
Rate Generator for 2020 Filers

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers and whose monthly average peak demand in the preceding twelve months is less than 50kW. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. Note: Apartment buildings or multi-unit complexes and subdivisions that are not individually metered are treated as General Service. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	37.03
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	0.37
Rate Rider for Recovery of Stranded Meter Assets - effective until April 30, 2019	$	2.27
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Distribution Volumetric Rate	$/kWh	0.0164
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	0.0032
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kWh	(0.0031)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kWh	0.0003
Retail Transmission Rate - Network Service Rate	$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is in the range of 50 to 999 kW. There are two sub categories within this class, those being non-interval and interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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 Energt 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.

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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	126.35
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	4.47
Distribution Volumetric Rate	$/kW	4.9409
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.0222)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Applicable only for Non-Wholesale Market Participants - Approved on an Interim Basis	$/kW	(1.1171)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(0.0075)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1210
Retail Transmission Rate - Network Service Rate	$/kW	2.6658
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0110
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

GENERAL SERVICE 1,000 KW AND GREATER SERVICE CLASSIFICATION

This class refers to customers who do not qualify as residential customers whose monthly average peak demand in the preceding twelve months is equal to or greater than 1,000 kW. These accounts will all be interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. 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.

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.

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	3,626.56
Rate Rider for Recovery of Wind Storm Damage Costs - effective until December 31, 2019	$	32.22
Distribution Volumetric Rate	$/kW	2.8677
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	0.0102
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(1.3617)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1220
Retail Transmission Rate - Network Service Rate - Interval Metered	$/kW	2.7519
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	$/kW	2.0761

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

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, pedestrian X-Walk signals/beacons, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information and 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	10.47
Rate Rider for Recovery of Wind Storm Damage Costs (per connection) - effective until December 31, 2019	$	0.06
Distribution Volumetric Rate	$/kWh	0.0099
Low Voltage Service Rate	$/kWh	0.0003
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kWh	(0.0030)
Retail Transmission Rate - Network Service Rate	$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0053

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

SENTINEL LIGHTING SERVICE CLASSIFICATION

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

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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	2.86
Rate Rider for Recovery of Wind Storm Damage Costs (per connection) - effective until December 31, 2019	$	0.04
Distribution Volumetric Rate	$/kW	48.6158
Low Voltage Service Rate	$/kW	0.0255
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1151
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(5.6914)
Retail Transmission Rate - Network Service Rate	$/kW	0.5344
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.4031

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

STREET LIGHTING SERVICE CLASSIFICATION

All services supplied to street lighting equipment owned by or operated for the Municipality, the Region or the Province of Ontario shall be classified as Street Lighting Service. Street Lighting plant, facilities, or equipment owned by the customer are subject to the Electrical Safety Authority (ESA) requirements and Oakville Hydro specifications. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	3.93
Rate Rider for Recovery of Wind Storm Damage Costs (per connection) - effective until December 31, 2019	$	0.07
Distribution Volumetric Rate	$/kW	24.1490
Low Voltage Service Rate	$/kW	0.1061
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.0505)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(1.0553)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1139
Retail Transmission Rate - Network Service Rate	$/kW	2.2239
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.6778

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

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licenced by the Ontario Energy Board, which is provided electricity by means of this distributor's facilities. 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5,410.38
Distribution Volumetric Rate	$/kW	2.9550
Low Voltage Service Rate	$/kW	0.1313
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable only for Non-RPP Customers - Approved on an Interim Basis	$/kWh	0.0060
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Approved on an Interim Basis	$/kW	(1.0687)
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable only for Class B Customers - Approved on an Interim Basis	$/kW	0.1160
Retail Transmission Rate - Network Service Rate	$/kW	2.7519
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	2.0761

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

microFIT SERVICE CLASSIFICATION

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

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for General Service > 50 to 999kW customers that own their transformers (per kW of billing demand/month)	$/kW	(0.50)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

SPECIFIC SERVICE CHARGES

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

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

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

Customer Administration

Statement of account	$	15.00
Pulling post dated cheques	$	15.00
Duplicate invoices for previous billing	$	15.00
Easement letter	$	15.00
Account history	$	15.00
Credit reference/credit check (plus credit agency costs)	$	15.00
Returned cheque (plus bank charges)	$	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	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/reconnect at meter - during regular hours	$	65.00
Disconnect/reconnect at meter - after regular hours	$	185.00
Disconnect/reconnect at pole - during regular hours	$	185.00
Disconnect/reconnect at pole - after regular hours	$	415.00

Other

Special meter reads	$	30.00
Service call (after first service call in a 12-month period) - during regular hours	$	30.00
Service call (after first service call in a 12-month period) - after regular hours	$	165.00
Temporary service - install & remove - overhead - no transformer	$	500.00
Temporary service - install & remove - underground - no transformer	$	300.00
Specific charge for access to the power poles - $/pole/year (with the exception of wireless attachments)	$	43.63

Ontario Energy Board

Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

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 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 the Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

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

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
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)	$	2.00

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	1.0376
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0272
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

APPENDIX 4 – GLOBAL ADJUSTMENT ANALYSIS WORK FORM

Ontario Energy Board

GA Analysis Workform

Version 1.9

Account 1589 Global Adjustment (GA) Analysis Workform

Input cells
Drop down cells

Utility Name OAKVILLE HYDRO ELECTRICITY DISTRIBUTION INC.

Note 1 **Please select "Yes" in column D for any year being requested for disposition**

2014	**No**
2015	**No**
2016	**No**
2017	**No**
2018	**Yes**

Note 7 **Summary of GA (if multiple years requested for disposition)**

Year	Annual Net Change in Expected GA Balance from GA Analysis	Net Change in Principal Balance in the GL	Reconciling Items	Adjusted Net Change in Principal Balance in the GL	Unresolved Difference	$ Consumption at Actual Rate Paid	Unresolved Difference as % of Expected GA Payments to IESO
2018	$ (931,951)	$ 404,604	$ (1,167,508)	$ (762,904)	$ 169,046	$ 58,771,060	0.3%
Cumulative Balance	**$ (931,951)**	**$ 404,604**	**$ (1,167,508)**	**$ (762,904)**	**$ 169,046**	**$ 58,771,060**	**N/A**

Ontario Energy Board

GA Analysis Workform

Note 2 **Consumption Data Excluding for Loss Factor (Data to agree with RRR as applicable)**

Year		2018		
Total Metered excluding WMP	C = A+B	1,613,527,201	kWh	100%
RPP	A	815,037,861	kWh	50.5%
Non RPP	B = D+E	798,489,340	kWh	49.5%
Non-RPP Class A	D	177,344,123	kWh	11.0%
Non-RPP Class B*	E	621,145,217	kWh	38.5%

*Non-RPP Class B consumption reported in this table is not expected to directly agree with the Non-RPP Class B Including Loss Adjusted Billed Consumption in the GA Analysis of Expected Balance table below. The difference should be equal to the loss factor.

Please confirm that the above RRR data is accurate Confirmed

Note 3 **GA Billing Rate**

GA is billed on the 1st Estimate

Please confirm that the GA Rate used for unbilled revenue is the same as the one used for billed revenue in any paticular month Yes

Note 4 **Analysis of Expected GA Amount**

Year 2018

Calendar Month	Non-RPP Class B Including Loss Factor Billed Consumption (kWh)	Deduct Previous Month Unbilled Loss Adjusted Consumption (kWh)	Add Current Month Unbilled Loss Adjusted Consumption (kWh)	Non-RPP Class B Including Loss Adjusted Consumption, Adjusted for Unbilled (kWh)	GA Rate Billed ($/kWh)	$ Consumption at GA Rate Billed	GA Actual Rate Paid ($/kWh)	$ Consumption at Actual Rate Paid	Expected GA Variance ($)
	F	G	H	I = F-G+H	J	K = I*J	L	M = I*L	=M-K
January	57,170,533			57,170,533	0.08777	$ 5,017,858	0.06736	$ 3,851,007	$ (1,166,851)
February	49,548,904			49,548,904	0.07333	$ 3,633,421	0.08167	$ 4,046,659	$ 413,238
March	53,389,981			53,389,981	0.07877	$ 4,205,529	0.09481	$ 5,061,904	$ 856,375
April	50,082,262			50,082,262	0.09810	$ 4,913,070	0.09959	$ 4,987,692	$ 74,623
May	52,990,221			52,990,221	0.09392	$ 4,976,842	0.10793	$ 5,719,235	$ 742,393
June	52,656,234			52,656,234	0.13336	$ 7,022,235	0.11896	$ 6,263,986	$ (758,250)
July	59,797,969			59,797,969	0.08502	$ 5,084,023	0.07737	$ 4,626,569	$ (457,454)
August	60,689,036			60,689,036	0.07790	$ 4,727,676	0.07490	$ 4,545,609	$ (182,067)
September	55,007,154			55,007,154	0.08424	$ 4,633,803	0.08584	$ 4,721,814	$ 88,011
October	50,753,406			50,753,406	0.08921	$ 4,527,711	0.12059	$ 6,120,353	$ 1,592,642
November	50,732,635			50,732,635	0.12235	$ 6,207,138	0.09855	$ 4,999,701	$ (1,207,437)
December	51,681,941			51,681,941	0.09198	$ 4,753,705	0.07404	$ 3,826,531	$ (927,174)
Net Change in Expected GA Balance in the Year (i.e. Transactions in the Year)	**644,500,277**	**-**	**-**	**644,500,277**		**$ 59,703,011**		**$ 58,771,060**	**$ (931,951)**

Calculated Loss Factor **1.0376**

Note 5 **Reconciling Items**

	Item	Amount	Explanation	Principal Adjustments		
	Net Change in Principal Balance in the GL (i.e. Transactions in the Year)	$ 404,604		**Principal Adjustment on DVA Continuity Schedule**	**If "no", please provide an explanation**	**$ Principal Adjustment on DVA Continuity Schedule**
1a	True-up of GA Charges based on Actual Non-RPP Volumes - prior year					
1b	True-up of GA Charges based on Actual Non-RPP Volumes - current year	$ (864,908)		Yes		
2a	Remove prior year end unbilled to actual revenue differences	$ 353,932		Yes		
2b	Add current year end unbilled to actual revenue differences	$ 182,591		Yes		
3a	Remove difference between prior year accrual/forecast to actual from long term load transfers					
3b	Add difference between current year accrual/forecast to actual from long term load transfers					
4	Remove GA balances pertaining to Class A customers	$ 401,039		Yes		
5	Significant prior period billing adjustments recorded in current year					
6	Differences in GA IESO posted rate and rate charged on IESO invoice					
7	Differences in actual system losses and billed TLFs					
8	Others as justified by distributor	$ (1,240,162)	OEB Inspection Adjustment	No		
9						
10						

Total Principal Adjustments on DVA Continuity Schedule $ -

Note 6

Adjusted Net Change in Principal Balance in the GL	$ (762,904)
Net Change in Expected GA Balance in the Year Per Analysis	$ (931,951)
Unresolved Difference	$ 169,046
Unresolved Difference as % of Expected GA Payments to IESO	0.3%

Appendix A

Oakville Hydro GA Methodology Description

Questions on Accounts 1588 & 1589

1. Please complete the Table below for principal adjustments on the DVA Continuity Schedule for Account 1588:

Reconciliation of Account 1588 - 2018

	Principal Adjustments	Was the amount a "Principal Adjustment" in the previous year? (Y/N)
Balance December 31, 2018		
Reversals of Principal Adjustments - previous year		
1. Reversal of Cost of Power accrual from previous year		
2. Reversal of CT 1142 true-up from the previous year		
3. Unbilled to billed adjustment for previous year	$353,932	Y
4. Reversal of RPP vs. Non-RPP allocation		
Sub-Total Reversals from previous year (A):	$353,932	
Principal Adjustments - current year		
5. Cost of power accrual for 2018 vs Actual per IESO bill		
6. True-up of CT 1142 for 2018 consumption recorded in 2019 GL		
7. Unbilled accrued vs. billed for 2018 consumption	$182,591	N
8. True-up of RPP vs. Non-RPP allocation of CT 148 based on actual 2018 consumption	$(864,908)	N
9. Other (Class A)	$401,039	N
Sub-Total Principal Adjustments for 2018 consumption (B)	$(281,279)	
Total Principal Adjustments shown for 2018 (A + B)	$72,654	
Bal. For Disposition - 1588 (should match Total Claim column on DVA Continuity Schedule	$72,654	

10. In booking expense journal entries for Charge Type (CT) 1142 and CT 148 from the IESO invoice, please confirm which of the following approaches is used:
    a. CT 1142 is booked into Account 1588. CT 148 is pro-rated based on RPP/non-RPP consumption and then booked into Account 1588 and 1589 respectively.
    b. CT 148 is booked into Account 1589. The portion of CT 1142 equaling RPP minus HOEP for RPP consumption is booked into Account 1588. The portion of CT 1142 equaling GA RPP is credited into Account 1589.

c. If another approach is used, please explain in detail.

Response:

Oakville Hydro uses approach b.

11. Questions on CT 1142

a. Please describe how the initial RPP related GA is determined for settlement forms submitted by day 4 after the month-end (resulting in CT 1142 on the IESO invoice).

Response:

The initial RPP related GA is calculated by using the RPP consumption multiplied by the 2nd estimated GA rate for settlement forms submitted by the fourth business day of the month.

b. Please describe the process for truing up CT 1142 to actual RPP kWh, including which data is used for each TOU/Tier 1&2 prices, as well as the timing of the true up.

Response:

Oakville Hydro uses billed data from its Customer Information System and unbilled data from its Smart Meters to true up CT 1142 to actual RPP kWh. Oakville Hydro trues up to actual kWh prior to the disposition of accounts 1588 and 1589.

c. Has CT 1142 been trued up for with the IESO for all of 2018?

Response:

Oakville Hydro has trued up CT 1142 to actual GA rates for all of 2018.

d. Which months from 2018 were trued up in 2019?

i. Were these true ups recorded in the 2018 or 2019 balance in the General Ledger?

Response:

December 2018 was trued up in January 2019 and recorded in 2019 balance in the General Ledger.

e. Have all of the 2018 related true up been reflected in the applicant's DVA Continuity Schedule in this proceeding?

Response:

Yes, all of the 2018 related true-ups have been reflected in Oakville Hydro's DVA Continuity Schedule in this proceeding.

12. Questions on CT 148

a. Please describe the process for the initial recording of CT 148 in the accounts (i.e. 1588 and 1589).

Response:

Oakville Hydro calculates the RPP related GA costs and records the portion of RPP related GA costs in account 1588. The non-RPP GA costs are recorded in account 1589.

b. Please describe the process for true up of the GA related cost to ensure that the amounts reflected in Account 1588 are related to RPP GA costs and amounts in 1589 are related to only non-RPP GA costs.

Response:

Oakville Hydro allocates the true-up of RPP related GA costs between Account 1588 and Account 1589 on a monthly basis.

c. What data is used to determine the non-RPP kWh volume that is multiplied with the actual GA per kWh rate (based on CT 148) for recording as expense in Account 1589 for initial recording of the GA expense?

Response:

Oakville Hydro uses billed data from its Customer Information System and unbilled data from its Smart Meters to determine the RPP volume. The non-RPP volume is the difference between the total volumes and the RPP volumes.

d. Does the utility true up the initial recording of CT 148 in Accounts 1588 and 1589 based on estimated proportions to actuals based on actual consumption proportions for RPP and non-RPP?

Response:

Oakville Hydro trues-up actual consumption for CT 148 prior to disposition of accounts 1588 and 1589.

e. Please indicate which months from 2018 were trued-up in 2019 for CT 148 proportions between RPP and non-RPP.

    i. Were these true ups recorded in the 2018 or 2019 balance in the General Ledger?

Response:

December 2018 was trued up in January 2019 and recorded in 2019 balance in the General Ledger.

f. Are all true-ups for 2018 consumption reflected in the DVA Continuity Schedule under 2018?

Response:

Yes, all of the 2018 related true-ups have been reflected in Oakville Hydro's DVA Continuity Schedule under 2018 in this proceeding.

13. Questions regarding principal adjustments and reversals on the DVA Continuity Schedule:

Questions on Principal Adjustments - Accounts 1588 and 1589

a. Did the applicant have principal adjustments in its 2019 rate proceeding which were approved for disposition?

Response:

Yes, Oakville Hydro received approval for principal adjustments on an interim basis in its 2019 rate proceeding.

b. Please provide a break-down of the total amount of principal adjustments that were approved (e.g. true-up of unbilled (for 1589 only), true up of CT 1142, true up of CT 148 etc.).

Response:

Item	Description	Principal Adjustments 1588	Principal Adjustments 1589
	Principal Adjustments - 2016		
a	Add current year end unbilled to actual revenue differences		$ (298,881.86)
b	Global Adjustment True Up	$ (2,229,266.60)	$ 1,744,327.12
	Total	**$(2,229,266.60)**	**$1,445,445.26**
	Principal Adjustments - 2017		
c	Remove prior year end unbilled to actual revenue differences		$ 298,881.86
d	Add current year end unbilled to actual revenue differences		$ (353,932.11)
e	Global Adjustment True Up	$ 21,769.38	$ (504,165.25)
	Total	**$ 21,769.38**	**$ (559,215.50)**

c. Has the applicant reversed the adjustment approved in 2019 in its current proposed amount for disposition?

Response:

Yes, Oakville Hydro has reversed the adjustment item d above approved in 2019 in its continuity schedule. Oakville Hydro is not seeking approval for the disposition of the Group 1 balances in its 2019 application.

d. Please confirm that the allocation of charge type 148 has been trued up to actual proportion of RPP/ non-RPP consumption in the GL.

Response:

Oakville Hydro confirms that the allocation of charge type 148 has been trued up to actual proportion of RPP/ non-RPP consumption in the GL.

APPENDIX 5 – INCREMENTAL CAPITAL MODULE

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Note: Depending on the selections made below, certain worksheets in this workbook will be hidden.

Version 5.00

Utility Name	Oakville Hydro Electricity Distribution Inc.
Assigned EB Number	EB-2019-0059
Name of Contact and Title	Maryanne Wilson
Phone Number	905-825-4422
Email Address	mwilson@oakvillehydro.com
Is this Capital Module being filed in a CoS or Price-Cap IR Application?	Price-Cap IR
Rate Year	2020
Indicate the Price-Cap IR Year (1, 2, 3, 4, etc) in which Oakville Hydro Electricity Distribution Inc. is applying:	6
Next OEB Scheduled Rebasing Year	2022
Oakville Hydro Electricity Distribution Inc. is applying for:	ICM Approval
Last Rebasing Year:	2014
The most recent complete year for which actual billing and load data exists	2018
Current IPI	1.20%
Strech Factor Assigned to Middle Cohort*	III
Stretch Factor Value	0.30%
Price Cap Index	0.90%

Based on the inputs above, the growth factor utilized in the Materiality Threshold Calculation will be determined by:

Revenues Based on 2018 Actual Distribution Demand

Revenues Based on 2014 Board-Approved Distribution Demand

Notes

Pale green cells represent input cells.

Pale blue cells represent drop-down lists. The applicant should select the appropriate item from the drop-down list.

White cells contain fixed values, automatically generated values or formulae.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

**As per ACM/ICM policy, the middle cohort stretch factor is applied to all ACM/ICM applications.*

OEB policies regarding rate-setting and rebasing following distributor consolidations could allow a distributor to not rebase rates for up to ten years. A distributor could also apply for and receive OEB approval to defer rebasing. If a distributor is under Price Cap IR for more than four years after rebasing and applies for an ICM, this spreadsheet will need to be adapted to accommodate those circumstances. The distributor should contact OEB staff to discuss the circumstances so that a customized model can be provided.

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Select the appropriate rate classes as they appear on your most recent Board-Approved Tariff of Rates and Charges, excluding the MicroFit Class.

How many classes are on your most recent Board-Approved Tariff of Rates and Charges? **7**

Select Your Rate Classes from the **Blue Cells** below. Please ensure that a rate class is assigned to **each shaded cell.**

	Rate Class Classification
1	RESIDENTIAL
2	GENERAL SERVICE LESS THAN 50 kW
3	UNMETERED SCATTERED LOAD
4	GENERAL SERVICE 50 TO 999 kW
5	GENERAL SERVICE 1,000 KW AND GREATER
6	SENTINEL LIGHTING
7	STREET LIGHTING

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Input the billing determinants associated with Oakville Hydro Electricity Distribution Inc.'s Revenues Based on 2018 Actual Distribution Demand. Input the current approved distribution rates. Sheets 4 & 5 calculate the NUMERATOR portion of the growth factor calculation.

		2018 Actual Distribution Demand			Current Approved Distribution Rates		
Rate Class	**Units**	**Billed Customers or Connections**	**Billed kWh**	**Billed kW (if applicable)**	**Monthly Service Charge**	**Distribution Volumetric Rate kWh**	**Distribution Volumetric Rate kW**
RESIDENTIAL	$/kWh	65,690	591,698,674		29.39	0.0000	0.0000
GENERAL SERVICE LESS THAN 50 kW	$/kWh	5,543	173,870,024		37.03	0.0164	0.0000
UNMETERED SCATTERED LOAD	$/kWh	721	4,343,401		10.47	0.0099	0.0000
GENERAL SERVICE 50 TO 999 kW	$/kW	852	572,204,435	1,550,680	126.35	0.0000	4.9409
GENERAL SERVICE 1,000 KW AND GREATER	$/kW	23	216,013,961	476,945	3626.56	0.0000	2.8677
SENTINEL LIGHTING	$/kW	163	97,108	270	2.86	0.0000	48.6158
STREET LIGHTING	$/kW	11,693	5,561,834	17,274	3.93	0.0000	24.1490

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Calculation of pro forma 2014 Revenues. No input required.

	2018 Actual Distribution Demand			Current Approved Distribution Rates										
Rate Class	Billed Customers or Connections	Billed kWh	Billed kW (if applicable)	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Revenues from Rates	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Total % Revenue
	A	B	C	D	E	F	G	H	I	J	K = G / J	L = H / J	M = I / J	N
RESIDENTIAL	65,690	591,698,674		29.39	0.0000	0.0000	23,167,549	0	0	23,167,549	100.0%	0.0%	0.0%	56.6%
GENERAL SERVICE LESS THAN 50 kW	5,543	173,870,024		37.03	0.0164	0.0000	2,463,087	2,851,468	0	5,314,556	46.3%	53.7%	0.0%	13.0%
UNMETERED SCATTERED LOAD	721	4,343,401		10.47	0.0099	0.0000	90,586	43,000	0	133,586	67.8%	32.2%	0.0%	0.3%
GENERAL SERVICE 50 TO 999 kW	852	572,204,435	1,550,680	126.35	0.0000	4.9409	1,291,802	0	7,661,753	8,953,556	14.4%	0.0%	85.6%	21.9%
GENERAL SERVICE 1,000 KW AND GREATER	23	216,013,961	476,945	3,626.56	0.0000	2.8677	1,000,931	0	1,367,735	2,368,665	42.3%	0.0%	57.7%	5.8%
SENTINEL LIGHTING	163	97,108	270	2.86	0.0000	48.6158	5,594	0	13,114	18,708	29.9%	0.0%	70.1%	0.0%
STREET LIGHTING	11,693	5,561,834	17,274	3.93	0.0000	24.1490	551,442	0	417,157	968,598	56.9%	0.0%	43.1%	2.4%
Total	**84,685**	**1,563,789,438**	**2,045,169**				**28,570,992**	**2,894,468**	**9,459,759**	**40,925,219**				**100.0%**

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Applicants Rate Base

Last COS Rebasing: 2014

Average Net Fixed Assets

Gross Fixed Assets - Re-based Opening	$ 269,255,118	A			
Add: CWIP Re-based Opening	$ 1,721,587	B			
Re-based Capital Additions	$ 15,325,638	C			
Re-based Capital Disposals		D			
Re-based Capital Retirements		E			
Deduct: CWIP Re-based Closing		F			
Gross Fixed Assets - Re-based Closing	$ 286,302,343	G			
Average Gross Fixed Assets			$	277,778,731	H = (A + G) / 2
Accumulated Depreciation - Re-based Opening	$ 113,576,108	I			
Re-based Depreciation Expense	$ 8,124,658	J			
Re-based Disposals		K			
Re-based Retirements		L			
Accumulated Depreciation - Re-based Closing	$ 121,700,766	M			
Average Accumulated Depreciation			$	117,638,437	N = (I + M) / 2
Average Net Fixed Assets			**$**	**160,140,294**	O = H - N

Working Capital Allowance

Working Capital Allowance Base	$ 185,498,731	P			
Working Capital Allowance Rate	13.0%	Q			
Working Capital Allowance			**$**	**24,114,835**	R = P * Q
Rate Base			**$**	**184,255,129**	S = O + R

Return on Rate Base

Deemed ShortTerm Debt %	4.00%	T	$	7,370,205	W = S * T
Deemed Long Term Debt %	56.00%	U	$	103,182,872	X = S * U
Deemed Equity %	40.00%	V	$	73,702,051	Y = S * V
Short Term Interest	2.11%	Z	$	155,511	AC = W * Z
Long Term Interest	4.68%	AA	$	4,828,531	AD = X * AA
Return on Equity	9.36%	AB	$	6,898,512	AE = Y * AB
Return on Rate Base			**$**	**11,882,554**	AF = AC + AD + AE

Distribution Expenses

OM&A Expenses	$ 17,784,721	AG			
Amortization	$ 8,124,658	AH			
Ontario Capital Tax		AI			
Grossed Up Taxes/PILs		AJ			
Low Voltage		AK			
Transformer Allowance		AL			
		AM			
		AN			
		AO			
			$	**25,909,379**	AP = SUM (AG : AO)

Revenue Offsets

Specific Service Charges	-$ 302,200	AQ			
Late Payment Charges	-$ 365,000	AR			
Other Distribution Income	-$ 903,245	AS			
Other Income and Deductions	-$ 634,820	AT	**-$**	**2,205,265**	AU = SUM (AQ : AT)
Revenue Requirement from Distribution Rates			**$**	**35,586,668**	AV = AF + AP + AU

Rate Classes Revenue

Rate Classes Revenue - Total (Sheet 4)			$	40,925,219	AW

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Input the billing determinants associated with Oakville Hydro Electricity Distribution Inc.'s Revenues Based on 2014 Board-Approved Distribution Demand. This sheet calculates the DENOMINATOR portion of the growth factor calculation.
Pro forma Revenue Calculation.

	2014 Board-Approved Distribution Demand			Current Approved Distribution Rates										
Rate Class	Billed Customers or Connections	Billed kWh	Billed kW	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Total Revenue By Rate Class	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Total % Revenue
	A	B	C	D	E	F	G	H	I	J	K = G / J_{total}	L = H / J_{total}	M = I / J_{total}	N
RESIDENTIAL	59,565	595,449,114		29.39	0.0000	0.0000	21,007,384	0	0	21,007,384	55.4%	0.0%	0.0%	55.4%
GENERAL SERVICE LESS THAN 50 kW	4,926	158,508,292		37.03	0.0164	0.0000	2,188,917	2,599,536	0	4,788,453	5.8%	6.9%	0.0%	12.6%
UNMETERED SCATTERED LOAD	674	3,504,020		10.47	0.0099	0.0000	84,681	34,690	0	119,371	0.2%	0.1%	0.0%	0.3%
GENERAL SERVICE 50 TO 999 kW	920	606,291,782	1,589,641	126.35	0.0000	4.9409	1,394,904	0	7,854,257	9,249,161	3.7%	0.0%	20.7%	24.4%
GENERAL SERVICE 1,000 KW AND GREATER	16	147,386,488	329,822	3,626.56	0.0000	2.8677	696,300	0	945,831	1,642,130	1.8%	0.0%	2.5%	4.3%
SENTINEL LIGHTING	157	116,788	324	2.86	0.0000	48.6158	5,388	0	15,752	21,140	0.0%	0.0%	0.0%	0.1%
STREET LIGHTING	10,404	8,943,095	24,961	3.93	0.0000	24.1490	490,653	0	602,783	1,093,436	1.3%	0.0%	1.6%	2.9%
Total	**76,662**	**1,520,199,579**	**1,944,748**				**25,868,227**	**2,634,226**	**9,418,622**	**37,921,076**				**100.0%**

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Current Revenue from Rates

This sheet is used to determine the applicant's most current allocation of revenues (after the most recent revenue to cost ratio adjustment, if applicable) to appropriately allocate the incremental revenue requirement to the classes.

	Current OEB-Approved Base Rates			2018 Actual Distribution Demand										
Rate Class	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW	Re-based Billed Customers or Connections	Re-based Billed kWh	Re-based Billed kW	Current Base Service Charge Revenue	Current Base Distribution Volumetric Rate kWh Revenue	Current Base Distribution Volumetric Rate kW Revenue	Total Current Base Revenue	Service Charge % Total Revenue	Distribution Volumetric Rate % Total Revenue	Distribution Volumetric Rate % Total Revenue	Total % Revenue
	A	B	C	D	E	F	G	H	I	J	L = G / J_{total}	M = H / J_{total}	N = I / J_{total}	O
RESIDENTIAL	29.39	0	0	65,690	591,698,674	0	23,167,549	0	0	23,167,549	56.61%	0.00%	0.00%	56.6%
GENERAL SERVICE LESS THAN 50 kW	37.03	0.0164	0	5,543	173,870,024	0	2,463,087	2,851,468	0	5,314,556	6.02%	6.97%	0.00%	13.0%
UNMETERED SCATTERED LOAD	10.47	0.0099	0	721	4,343,401	0	90,586	43,000	0	133,586	0.22%	0.11%	0.00%	0.3%
GENERAL SERVICE 50 TO 999 kW	126.35	0	4.9409	852	572,204,435	1,550,680	1,291,802	0	7,661,753	8,953,556	3.16%	0.00%	18.72%	21.9%
GENERAL SERVICE 1,000 KW AND GREATER	3626.56	0	2.8677	23	216,013,961	476,945	1,000,931	0	1,367,735	2,368,665	2.45%	0.00%	3.34%	5.8%
SENTINEL LIGHTING	2.86	0	48.6158	163	97,108	270	5,594	0	13,114	18,708	0.01%	0.00%	0.03%	0.0%
STREET LIGHTING	3.93	0	24.149	11,693	5,561,834	17,274	551,442	0	417,157	968,598	1.35%	0.00%	1.02%	2.4%
Total							**28,570,992**	**2,894,468**	**9,459,759**	**40,925,219**				**100.0%**

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

No Input Required.

Final Materiality Threshold Calculation

$$\textbf{Threshold Value}\ (\%) = 1 + \left[\left(\frac{RB}{d}\right) \times (g + PCI \times (1 + g))\right] \times ((1 + g) \times (1 + PCI))^{n-1} + 10\%$$

Cost of Service Rebasing Year		**2014**	
Price Cap IR Year in which Application is made		**6**	n
Price Cap Index		**0.90%**	PCI
Growth Factor Calculation			
Revenues Based on 2018 Actual Distribution Demand		**$40,925,219**	
Revenues Based on 2014 Board-Approved Distribution Demand		**$37,921,076**	
Growth Factor		**1.98%**	g (Note 1)
Dead Band		**10%**	
Average Net Fixed Assets			
Gross Fixed Assets Opening	$	269,255,118	
Add: CWIP Opening	$	1,721,587	
Capital Additions	$	15,325,638	
Capital Disposals	$	-	
Capital Retirements	$	-	
Deduct: CWIP Closing	$	-	
Gross Fixed Assets - Closing	$	286,302,343	
Average Gross Fixed Assets	$	277,778,731	
Accumulated Depreciation - Opening	$	113,576,108	
Depreciation Expense	$	8,124,658	
Disposals	$	-	
Retirements	$	-	
Accumulated Depreciation - Closing	$	121,700,766	
Average Accumulated Depreciation	$	117,638,437	
Average Net Fixed Assets	$	160,140,294	
Working Capital Allowance			
Working Capital Allowance Base	$	185,498,731	
Working Capital Allowance Rate		13%	
Working Capital Allowance	$	24,114,835	
Rate Base	**$**	**184,255,129**	RB
Depreciation	**$**	**8,124,658**	d

Threshold Value (varies by Price Cap IR Year subsequent to CoS rebasing)	
Price Cap IR Year 2015	**176%**
Price Cap IR Year 2016	**178%**
Price Cap IR Year 2017	**180%**
Price Cap IR Year 2018	**182%**
Price Cap IR Year 2019	**184%**
Price Cap IR Year 2020	**186%**
Price Cap IR Year 2021	**188%**
Price Cap IR Year 2022	**190%**
Price Cap IR Year 2023	**193%**
Price Cap IR Year 2024	**195%**

Threshold CAPEX		$Threshold\ Value \times d$
Price Cap IR Year 2015	**$**	**14,277,479**
Price Cap IR Year 2016	**$**	**14,432,261**
Price Cap IR Year 2017	**$**	**14,591,529**
Price Cap IR Year 2018	**$**	**14,755,414**
Price Cap IR Year 2019	**$**	**14,924,048**
Price Cap IR Year 2020	**$**	**15,097,570**
Price Cap IR Year 2021	**$**	**15,276,121**
Price Cap IR Year 2022	**$**	**15,459,847**
Price Cap IR Year 2023	**$**	**15,648,899**
Price Cap IR Year 2024	**$**	**15,843,429**

Note 1: The growth factor g is annualized, depending on the number of years between the numerator and denominator for the calculation. Typically, for ACM review in a cost of service and in the fourth year of Price Cap IR, the ratio is divided by 2 to annualize it. No division is normally required for the first three years under Price Cap IR.

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Identify ALL Proposed ACM and ICM projects and related CAPEX costs in the relevant years

	Cost of Service	*Price Cap IR*	*Price Cap IR*	*Price Cap IR*	*Price Cap IR*
	Test Year 2014	Year 1 2015	Year 2 2016	Year 3 2017	Year 4 2018
CAPEX[1]					
Materiality Threshold		$ 14,277,479	$ 14,432,261	$ 14,591,529	$ 14,755,414
Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)		$ -	$ -	$ -	$ -

		Test Year	Year 1 2015			Year 2 2016			Year 3 2017			Year 4 2018		
Project Descriptions:	Type	2014	Proposed ACM/ICM	Amortization Expense	CCA	Proposed ACM/ICM	Amortization Expense	CCA	Proposed ACM/ICM	Amortization Expense	CCA	Proposed ACM/ICM	Amortization Expense	CCA
Total Cost of ACM/ICM Projects			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Maximum Allowed Incremental Capital			$ -			$ -			$ -			$ -		

Price Cap IR (Deferred Rebasing) (if necessary) | *Price Cap IR (Deferred Rebasing) (if necessary)*

	Price Cap IR	*Price Cap IR*
	Year 5 2019	Year 6 2020
Distribution System Plan CAPEX		$ 21,174,000
Materiality Threshold	$ 14,924,048	$ 15,097,570
Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)	$ -	$ 6,076,430

		Year 5 2019			Year 6 2020		
Project Descriptions:	Type	Proposed ACM/ICM	Amortization Expense	CCA	Proposed ACM/ICM	Amortization Expense	CCA
Feeder metering Bronte TS Upgrade	New ICM				$ 1,700,000	$ 49,000	$ 136,000
Town of Oakville Road Widening - Speers Road	New ICM				$ 2,000,000	$ 46,000	$ 160,000
Halton Region Road Widening - Trafalgar Road	New ICM				$ 2,200,000	$ 51,000	$ 176,000
Halton Region Road Widening - William Halton Parkway	New ICM				$ 1,200,000	$ 25,000	$ 96,000
Total Cost of ACM/ICM Projects		$ -	$ -	$ -	$ 7,100,000	$ 171,000	$ 568,000
Maximum Allowed Incremental Capital		$ -			$ 6,076,430		

1. For the Cost of Service Test Year, CAPEX refers to the CAPEX approved in the DSP. For subsequent Price CAP IR years, the CAPEX to be entered is the actual CAPEX. For the current Price Cap IR year, the CAPEX to be entered is the proposed CAPEX including any ICM/updated ACM project CAPEX for the year.

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Incremental Capital Adjustment **Rate Year:** 2020

Current Revenue Requirement

Current Revenue Requirement - Total	$ 35,586,668	A

Eligible Incremental Capital for ACM/ICM Recovery

	Total Claim	Eligible for ACM/ICM (Full Year Prorated Amount) *(from Sheet 10b)*	
Amount of Capital Projects Claimed	$ 7,100,000	$ 6,076,430	B
Depreciation Expense	$ 171,000	$ 146,348	C
CCA	$ 568,000	$ 486,114	V

ACM/ICM Incremental Revenue Requirement Based on Eligible Amount in Rate Year

Return on Rate Base

Incremental Capital			$ 6,076,430	B
Depreciation Expense (prorated to Eligible Incremental Capital)			$ 146,348	C
Incremental Capital to be included in Rate Base (average NBV in year)			$ 6,003,256	D = B - C/2
	% of capital structure			
Deemed Short-Term Debt	4.0%	E	$ 240,130	G = D * E
Deemed Long-Term Debt	56.0%	F	$ 3,361,823	H = D * F
	Rate (%)			
Short-Term Interest	2.11%	I	$ 5,067	K = G * I
Long-Term Interest	4.68%	J	$ 157,319	L = H * J
Return on Rate Base - Interest			$ 162,386	M = K + L
	% of capital structure			
Deemed Equity %	40.00%	N	$ 2,401,302	P = D * N
	Rate (%)			
Return on Rate Base -Equity	9.36%	O	$ 224,762	Q = P * O
Return on Rate Base - Total			$ 387,148	R = M + Q

Amortization Expense

Amortization Expense - Incremental	C	$ 146,348	S

Grossed up Taxes/PILs

Regulatory Taxable Income	O	$ 224,762	T
Add Back Amortization Expense (Prorated to Eligible Incremental Capital)	S	$ 146,348	U
Deduct CCA (Prorated to Eligible Incremental Capital)		$ 486,114	V
Incremental Taxable Income		-$ 115,005	W = T + U - V
Current Tax Rate	X		
Taxes/PILs Before Gross Up		$ -	Y = W * X
Grossed-Up Taxes/PILs		$ -	Z = Y / (1 - X)

Incremental Revenue Requirement

Return on Rate Base - Total	Q	$ 387,148	AA
Amortization Expense - Total	S	$ 146,348	AB
Grossed-Up Taxes/PILs	Z	$ -	AC
Incremental Revenue Requirement		$ 533,496	AD = AA + AB + AC

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Oakville Hydro Electricity Distribution Inc.

Calculation of incremental rate rider. Choose one of the 3 options: Fixed and Variable Rate Riders

Rate Class	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Total Revenue by Rate Class	Billed Customers or Connections	Billed kWh	Billed kW	Service Charge Rate Rider	Distribution Volumetric Rate kWh Rate Rider	Distribution Volumetric Rate kW Rate Rider	
	From Sheet 7	*From Sheet 7*	*From Sheet 7*	Col C * Col I_{total}	Col D* Col I_{total}	Col E* Col I_{total}	*Col I_{total}*	*From Sheet 4*	*From Sheet 4*	*From Sheet 4*	Col F / Col K / 12	Col G / Col L	Col H / Col M	
RESIDENTIAL	56.61%	0.00%	0.00%	302,009	0	0	302,009	65,690	591,698,674		0.38	0.0000	0.0000	*Note: As per the OEB's letter issued July 16, 2015 (EB-2012-0410), Reside*
GENERAL SERVICE LESS THAN 50 kW	6.02%	6.97%	0.00%	32,108	37,171	0	69,280	5,543	173,870,024		0.48	0.0002	0.0000	
UNMETERED SCATTERED LOAD	0.22%	0.11%	0.00%	1,181	561	0	1,741	721	4,343,401		0.14	0.0001	0.0000	
GENERAL SERVICE 50 TO 999 kW	3.16%	0.00%	18.72%	16,840	0	99,878	116,717	852	572,204,435	1,550,680	1.65	0.0000	0.0644	
GENERAL SERVICE 1,000 KW AND GREATER	2.45%	0.00%	3.34%	13,048	0	17,830	30,878	23	216,013,961	476,945	47.28	0.0000	0.0374	
SENTINEL LIGHTING	0.01%	0.00%	0.03%	73	0	171	244	163	97,108	270	0.04	0.0000	0.6337	
STREET LIGHTING	1.35%	0.00%	1.02%	7,189	0	5,438	12,627	11,693	5,561,834	17,274	0.05	0.0000	0.3148	
Total	**69.81%**	**7.07%**	**23.11%**	**372,448**	**37,732**	**123,316**	**533,496**	**84,685**	**1,563,789,438**	**2,045,169**				
							533,496							
							From Sheet 11, E93							

APPENDIX 6 – HYDRO ONE TRANSMISSION SYSTEM PLAN

Hydro One Networks – Investment Summary Document

Sustaining Capital – Stations

Investment Name: Integrated Station Component Replacement - Bronte TS
Targeted Start Date: Q4 2016
Targeted In-Service Date: Q3 2019
Targeted Outcome: *Operational Effectiveness*

Need:

To address multiple assets at Bronte TS that are in need of replacement due to obsolescence, non-standard assets, and degraded condition that directly impact the operability and reliability of the transmission system. Not proceeding with this investment would result in a significant risk of further equipment deterioration and declining reliability to the customers in the area.

Investment Summary:

Built in the early 1960's, Bronte TS is a 53 year old transformer station that supplies load to local distribution companies, Oakville Hydro and Burlington Hydro Inc., via two low voltage switchyards. The oil analysis results for two of the transformers at Bronte TS show signs of internal overheating, indicating that there is an increased probability of failure. These units also have significant oil leaks that pose an environmental risk if not mitigated. In addition, the voltage regulation equipment installed on the unit has been deemed end of life by the manufacturer and can longer be supported or maintained. The low voltage switching assets are also in degraded condition, as identified through visual inspection and diagnostic testing.

The project entails the replacement of assets at Bronte TS with new equipment built to current standards including: two power transformers, oil spill containment facilities to comply with the Ministry of the Environment and Climate Change ("MOECC") requirements, all low voltage air insulated switchgear and structures, station service transformers, and all associated protection, control and telecom facilities. The replacement of these assets will be accomplished through expansion of the existing station footprint into the adjacent Crown land. This approach will greatly reduce outage durations and supply constraints which would otherwise negatively impact the local distribution companies and its connected customers.

Alternatives:
Three alternatives were considered:

- Alternative 1: Continue to maintain the assets (status quo);
- Alternative 2: In-Situ replacement of the assets; or
- Alternative 3: Relocated replacement of the assets.

Alternative 1 was considered and rejected as it does not address the risk of failure due to asset condition and would result in increased maintenance expenses. Both Alternatives 2 and 3 were considered further. Alternative 3 is the preferred and recommended alternative, as Alternative 2 would impose staging risks associated with maintaining supply to the local distribution company in addition to space limitations posed by the station property.

Basis for Budget Estimate:
The project cost is based on budgetary estimates prepared by Hydro One.

Outcome:
To eliminate operational risks associated with operating end of life equipment, and maintain system reliability.

Costs:

($ Millions)	**2017**	**2018**	**Total**
Capital* and Minor Fixed Assets	4.0	18.4	35.5
Operations, Maintenance & Administration and Removals	(0.3)	(1.3)	(2.4)
Gross Investment Cost	**3.7**	**17.1**	**33.1**
Capital Contribution	0.0	0.0	0.0
Net Investment Cost	**3.7**	**17.1**	**33.1**

*Includes Overhead at current rates. No Allowance for Funds Used During Construction is charged due to monthly capitalization.

APPENDIX 7 – INTEGRATED STATION COMPONENT REPLACEMENT - BRONTE TS

Burlington to Nanticoke

REGIONAL INFRASTRUCTURE PLAN

February 7, 2017

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Prepared and supported by:

Company
Brantford Power Inc.
Burlington Hydro Inc.
Energy + Inc.
Alectra Utilities Corporation (former Horizon Utilities Inc.)
Hydro One Networks Inc. (Distribution)
Independent Electricity System Operator (IESO)
Oakville Hydro
Hydro One Networks Inc. (Lead Transmitter)

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Disclaimer

This Regional Infrastructure Plan ("RIP") report was prepared for the purpose of developing an electricity infrastructure plan to address all near and mid-term needs (2015-2025) identified in previous planning phases and any additional needs identified based on new and/or updated information provided by the RIP Working Group.

The preferred solution(s) that have been identified in this report may be reevaluated based on the findings of further analysis. The load forecast and results reported in this RIP report are based on the information provided and assumptions made by the participants of the RIP Working Group.

Working Group participants, their respective affiliated organizations, and Hydro One Networks Inc. (collectively, "the Authors") make no representations or warranties (express, implied, statutory or otherwise) as to the RIP report or its contents, including, without limitation, the accuracy or completeness of the information therein and shall not, under any circumstances whatsoever, be liable to each other, or to any third party for whom the RIP report was prepared ("the Intended Third Parties"), or to any other third party reading or receiving the RIP report ("the Other Third Parties"), for any direct, indirect or consequential loss or damages or for any punitive, incidental or special damages or any loss of profit, loss of contract, loss of opportunity or loss of goodwill resulting from or in any way related to the reliance on, acceptance or use of the RIP report or its contents by any person or entity, including, but not limited to, the aforementioned persons and entities.

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EXECUTIVE SUMMARY

THIS REGIONAL INFRASTRUCTURE PLAN ("RIP") WAS PREPARED BY HYDRO ONE WITH PARTICIPATION AND INPUT FROM THE RIP WORKING GROUP IN ACCORDANCE WITH THE ONTARIO TRANSMISSION SYSTEM CODE REQUIREMENTS. IT IDENTIFIES INVESTMENTS IN TRANSMISSION FACILITIES, DISTRIBUTION FACILITIES, OR BOTH, THAT SHOULD BE PLANNED, DEVELOPED AND IMPLEMENTED TO MEET THE ELECTRICITY INFRASTRUCTURE NEEDS WITHIN THE BURLINGTON TO NANTICOKE REGION.

The participants of the RIP Working Group included members from the following organizations:

- Brantford Power Inc.
- Burlington Hydro Inc.
- Energy + Inc.
- Alectra Utilities Corporation (former Horizon Utilities Inc.)
- Hydro One Networks Inc. (Distribution)
- Independent Electricity System Operator (IESO)
- Oakville Hydro
- Hydro One Networks Inc. (Lead Transmitter)

In general, the RIP is the final phase of the regional planning process and, in this case, it follows the completion of the Integrated Regional Resource Plans ("IRRP") for Brant Sub-Region and Bronte Sub-Region in March 2015 and June 2016, respectively, and the Burlington to Nanticoke Region's Needs Assessment ("NA") in May 2014. This RIP provides a consolidated summary of the needs and recommended plans for the Burlington to Nanticoke Region for the near-term (up to 5 years) and the mid-term (5 to 10 years).

It should be noted that this RIP, in addition to advancing the work from the aforementioned IRRPs, also identifies additional needs related to sustainment and end-of-life facilities in the Hamilton area. Built over 50 years ago, the transmission assets in the Hamilton area are some of the oldest installations in the province. At the time of the Burlington to Nanticoke Need Assessment and Scoping Assessment phases, done in 2014, the detailed information on the condition and end-of-life issues related to these assets was not available. As such, a decision was made by the Working Group at that time to not initiate a coordinated planning exercise for the Hamilton subsystem. Since then, through the RIP process, the extent and urgency of the sustainment work in the Hamilton area, and also in Oakville and Brantford, are better known to the Working Group.

This RIP discusses those needs and the projects developed to address those needs. Implementation to address some of these needs is underway. The plans presented in this RIP to address new end-of-life needs have been developed by Hydro One and needs also confirmed by the LDC. Further details are being formalized by Hydro One through assessment and consultation with the LDC to develop implementation plans. The plans for Beach TS, Birmingham TS, Gage TS and Kenilworth TS were later also reviewed by the IESO as part of an ongoing study for the Hamilton area. However, new near and mid-term needs

namely Horning TS, Elgin TS, and Bronte TS were not fully identified earlier in the regional planning process and did not undergo a review by the IESO in the earlier phases due to their scope or project status.

The RIP report also identifies long-term needs associated with the revised and better defined sustainment plan.

The needs and/or plans in the near-term (2016-2020) and the mid- to long-term (beyond 2020) are provided below in Table 1 and Table 2, respectively, along with their planned in-service date and estimated cost, where applicable. Table 1 identifies both the stakeholders involved in each project's development and which formal regional planning process it originated from. The table also indicates the needs identified after the completion of the NA and SA (Scoping Assessment) processes.

Table 1: Near-Term Needs/Plans in Burlington to Nanticoke Region

No.	Needs	Plans	Status	I/S Date	Cost ($M)
Projects Developed in Local Planning or an IRRP					
1	115 kV B7/B8 Transmission Line Capacity	Bronte TS: Load Transfer	Planning	2018	1-3
2	115 kV B12/B13 Transmission Line Capacity	Install Brant Switching Station	Planning	2019	12
3	Two New Feeders at Dundas TS #2	Dundas TS: Load Transfer	Planning	2019	8
4	Cumberland TS – Power Factor Correction	LDC is developing distribution option	Planning	TBD (1)	-
5	Kenilworth TS – Power Factor Correction	LDC is developing distribution option	Planning	TBD (1)	-
Projects Developed by HONI & the LDC(s), Reviewed by IESO					
6	Kenilworth TS EOL transformers & switchgear (2)	Reconfigure from 2 DESNs to single DESN	Planning	2018	19
7	Beach TS – EOL T3/T4 DESN Transformers (2)	Replace Beach TS T3/T4 Transformers	Committed	2019	17
8	Gage TS – EOL transformers & switchgear	Gage TS: Reduce from 3 DESNs to 2 DESNs	Planning	2019	37
9	115 kV B7/B8 – EOL Line Section from Burlington TS to Nelson Jct.(2)	Refurbish the EOL B7/B8 line section	Planning	2020	2
Projects Developed by HONI & the LDC(s)					
10	115 kV B3/B4 – EOL Line Section from Horning Mountain Jct. to Glanford Jct.(2)	Refurbish the EOL B3/B4 line section conductor	Planning	2018	8
11	Horning TS EOL transformers & switchgears (2)	Replace EOL transformers & refurbish switchgears	Committed	2018	37
12	Bronte TS – EOL T5/T6 DESN (2)	Replace EOL transformers & refurbish switchgear	Committed	2019	34

No.	Needs	Plans	Status	I/S Date	Cost ($M)
13	Elgin TS – EOL transformers & switchgears	Replace transformers and switchgears and reduce 2 DESNs to 1 DESN	Committed	2019	58
14	Mohawk TS (T1/T2) – Station Capacity and EOL T1/T2 Transformers	Mohawk TS Transformers Replacement	Committed	2019	14

(1) To Be Decided
(2) New needs identified by HONI

Table 2: Mid- and Long-Term Needs/Plans in Burlington to Nanticoke Region

No.	Needs/Plans	Planned I/S Date	Cost ($M)
1	Birmingham TS: 2 Metal Clad Switchgear Refurbishment (1)	2021	14
2	Dundas TS: T1/T2 switchyard refurbishment	2021	10
3	Newton TS: Station Refurbishment	2021	36
4	LV Switchgear Refurbishment at Brantford TS, Lake TS and Stirton TS	2022	46
5	Beach TS: Replace EOL T7/T8 Autotransformers and refurbish T5/T6 DESN switchgear	2025	60
6	EOL 115 kV Cables: - H5K/ H6K - K1G/ K2G - HL3/ HL4	TBD (2)	TBD (2)

(1) Preliminarily reviewed by HONI, LDC and the IESO
(2) To Be Decided

Further details of needs, alternatives, and recommended plans for the above needs are provided in Section 7. The preliminary plans and needs identified in Table 2 will be further assessed in the next planning cycle. A summary of the current recommendations for these mid- and long-term needs is provided in Section 8.

The RIP Working Group recommends the following outcomes and next steps:

a) Hydro One will continue to implement the committed and near-term projects for addressing the above needs as discussed in this report, while keeping the Working Group apprised of project status, and

b) The RIP recommends that an expedited Needs Assessment report should be developed to list these already identified needs in the mid and long term or any new needs to be followed by Scoping Assessment, led by the IESO for further assessment under the Burlington to Nanticoke regional planning Working Group.

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Table of Contents

List of Figures

List of Tables

1. INTRODUCTION

THIS REPORT PRESENTS THE REGIONAL INFRASTRUCTURE PLAN ("RIP") TO ADDRESS THE ELECTRICITY NEEDS OF THE BURLINGTON TO NANTICOKE REGION.

The report was prepared by Hydro One Networks Inc. ("Hydro One") and documents the results of the needs, assessments and recommended plan. The members of the RIP WG included representative from Brantford Power Inc. ("Brantford Power"), Burlington Hydro Inc. ("Burlington Hydro"), Energy + Inc. ("Energy +"), Alectra Utilities Corporation (former Horizon Utilities Inc. "Alectra Utilities"), Hydro One Distribution, the Independent Electricity System Operator ("IESO") and Oakville Hydro Electricity Distribution Inc. ("Oakville Hydro") in accordance with the Regional Planning process established by the Ontario Energy Board ("OEB") in 2013.

The Burlington to Nanticoke region covers the City of Brantford, municipality of Hamilton, counties of Brant, Haldimand and Norfolk. The portions of Cities of Burlington and Oakville south of Dundas Street are included in the Burlington to Nanticoke region up to Third Line road in the east. Electrical supply to the Region is provided from thirty-one 230 kV and 115 kV step-down transformer stations. The summer 2015 load of the Region was about 1831 MW. The boundaries of the Region are shown in Figure 1-1 below.

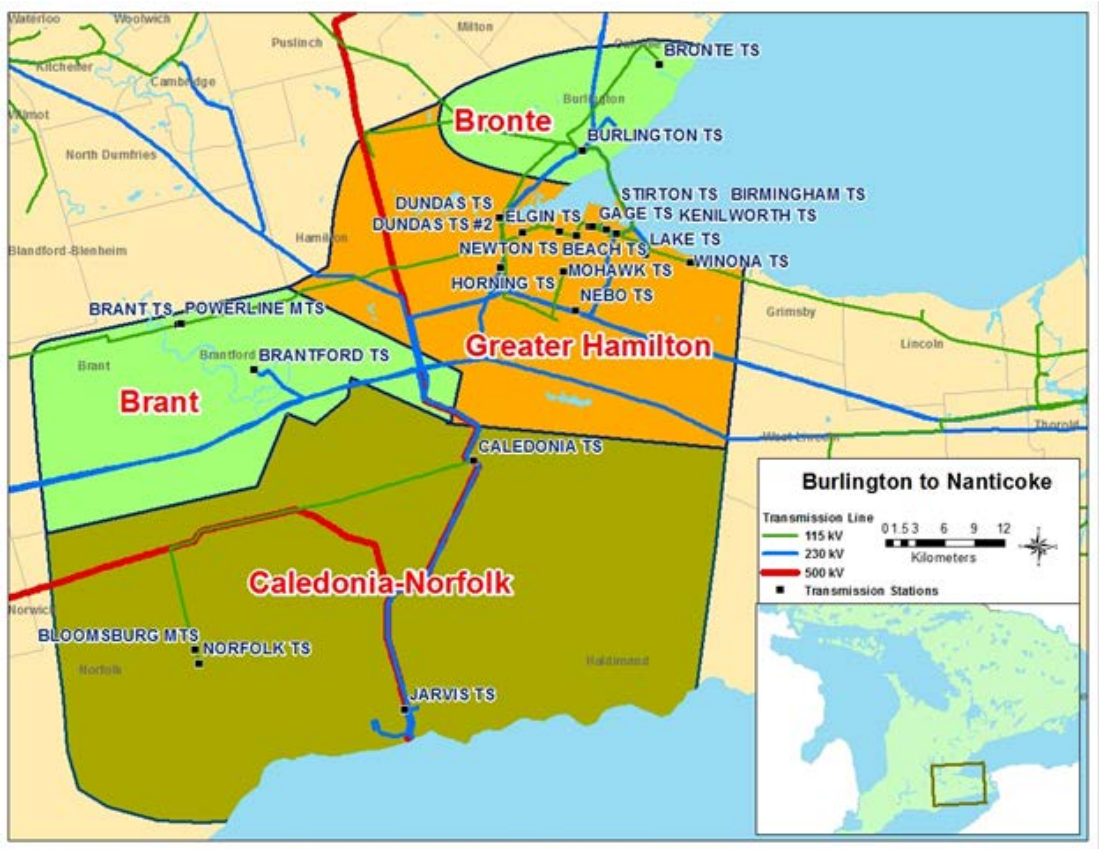

Figure 1-1 Burlington to Nanticoke Region

1.1 Objective and Scope

The RIP report examines the needs in the Burlington to Nanticoke Region. Its objectives are to:

- Provide a comprehensive summary of needs and wires plans to address the needs;
- Identify any new needs that may have emerged since previous planning phases e.g., Needs Assessment ("NA") and/or Integrated Regional Resource Plan("IRRP");
- Assess and develop a wires plan to address these new needs; and
- Identify investments in transmission and distribution facilities or both that should be developed and implemented on a coordinated basis to meet the electricity infrastructure needs within the region.

The RIP reviewed factors such as the load forecast, major high voltage sustainment issues emerging over the mid- and long-term, transmission and distribution system capability along with any updates with respect to local plans, conservation and demand management ("CDM"), renewable and non-renewable generation development, and other electricity system and local drivers that may impact the need and alternatives under consideration.

The scope of this RIP is as follows:

- A consolidated summary of the wires plan developed during LP (Local Planning), SA (Scoping Assessment), and/or as identified in IRRP.
- Discussion of any other major transmission infrastructure investment plans over the near and mid-term (0-10 years)
- Identification of any new needs and a wires plan to address these needs based on new and/or updated information.

1.2 Structure

The rest of the report is organized as follows:

- Section 2 provides an overview of the regional planning process.
- Section 3 describes the regional characteristics.
- Section 4 describes the transmission work completed over the last ten years.
- Section 5 describes the load forecast and study assumptions used in this assessment.
- Section 6 describes the results of the adequacy assessment of the transmission facilities and identifies needs.
- Section 7 discusses the needs and provides the alternatives and preferred solutions.
- Section 8 provides the conclusion and next steps.

2. REGIONAL PLANNING PROCESS

2.1 Overview

Planning for the electricity system in Ontario is done at essentially three levels: bulk system planning, regional system planning, and distribution system planning. These levels differ in the facilities that are considered and the scope of impact on the electricity system. Planning at the bulk system level typically looks at issues that impact the system on a provincial level, while planning at the regional and distribution levels looks at issues on a more regional or localized level.

Regional planning looks at supply and reliability issues at a regional or local area level. Therefore, it largely considers the 115 kV and 230 kV portions of the power system that supply various parts of the province.

2.2 Regional Planning Process

A structured regional planning process was established by the Ontario Energy Board ("OEB") in 2013 through amendments to the Transmission System Code ("TSC") and Distribution System Code ("DSC"). The process consists of four phases: the Needs Assessment [1] ("NA"), the Scoping Assessment ("SA"), the Integrated Regional Resource Plan ("IRRP"), and the Regional Infrastructure Plan ("RIP").

The regional planning process begins with the NA phase, which is led by the transmitter to determine if there are regional needs. The NA phase identifies the needs and the Working Group determines whether further regional coordination is necessary to address them. If no further regional coordination is required, further planning is undertaken by the transmitter and the impacted local distribution company ("LDC") or customer and develops a Local Plan ("LP") to address them. These needs are local in nature and can be best addressed by a straight forward wires solution.

In situations where identified needs require coordination at the regional or sub-regional levels, the IESO initiates the SA phase. During this phase, the IESO, in collaboration with the transmitter and impacted LDCs, reviews the information collected as part of the NA phase, along with additional information on potential non-wires alternatives, and makes a decision on the most appropriate regional planning approach. The approach is either a RIP, which is led by the transmitter, or an IRRP, which is led by the IESO. If more than one sub-region was identified in the NA phase, it is possible that a different approach could be taken for different sub-regions.

The IRRP phase will generally assess infrastructure (wires) versus resource (CDM and Distributed Generation) options at a higher or more macro level, but sufficient to permit a comparison of options. If the IRRP phase identifies that infrastructure options may be most appropriate to meet a need, the RIP phase will conduct detailed planning to identify and assess the specific wires alternatives and recommend

[1] Also referred to as Needs Screening

a preferred wires solution. Similarly, resource options that the IRRP identifies as best suited to meet a need are then further planned in greater detail by the IESO. The IRRP phase also includes IESO led stakeholder engagement with municipalities and establishes a Local Advisory Committee in the region or sub-region. The Brant Sub-Region IESO led IRRP was initiated prior to the new regional planning process and was completed in March 2015. The need for Bronte Sub-Region IRRP was identified during the Need Assessment for Burlington to Nanticoke region and was completed in June 2016.

The RIP phase is the fourth and final phase of the regional planning process and involves: discussion of previously identified needs and plans; identification of any new needs that may have emerged since the start of the planning cycle; and development of a wires plan to address the needs where a wires solution would be the best overall approach. This phase is led and coordinated by the transmitter and the deliverable is a comprehensive report of a wires plan for the region. Once completed, this report is also referenced in transmitter's rate filing submissions and as part of LDC rate applications with a planning status letter provided by the transmitter.

To efficiently manage the regional planning process, Hydro One has been undertaking wires planning activities in collaboration with the IESO and/or LDCs for the region as part of and/or in parallel with:

- Planning activities that were already underway in the region prior to the new regional planning process taking effect.
- The NA, SA, and LP phases of regional planning.
- Participating in and conducting wires planning as part of the IRRP for the region or sub-region.
- Working and planning for connection capacity requirements with the LDCs and transmission connected customers

Figure 2-1 illustrates the various phases of the regional planning process (NA, SA, IRRP, and RIP) and their respective phase trigger, lead, and outcome.

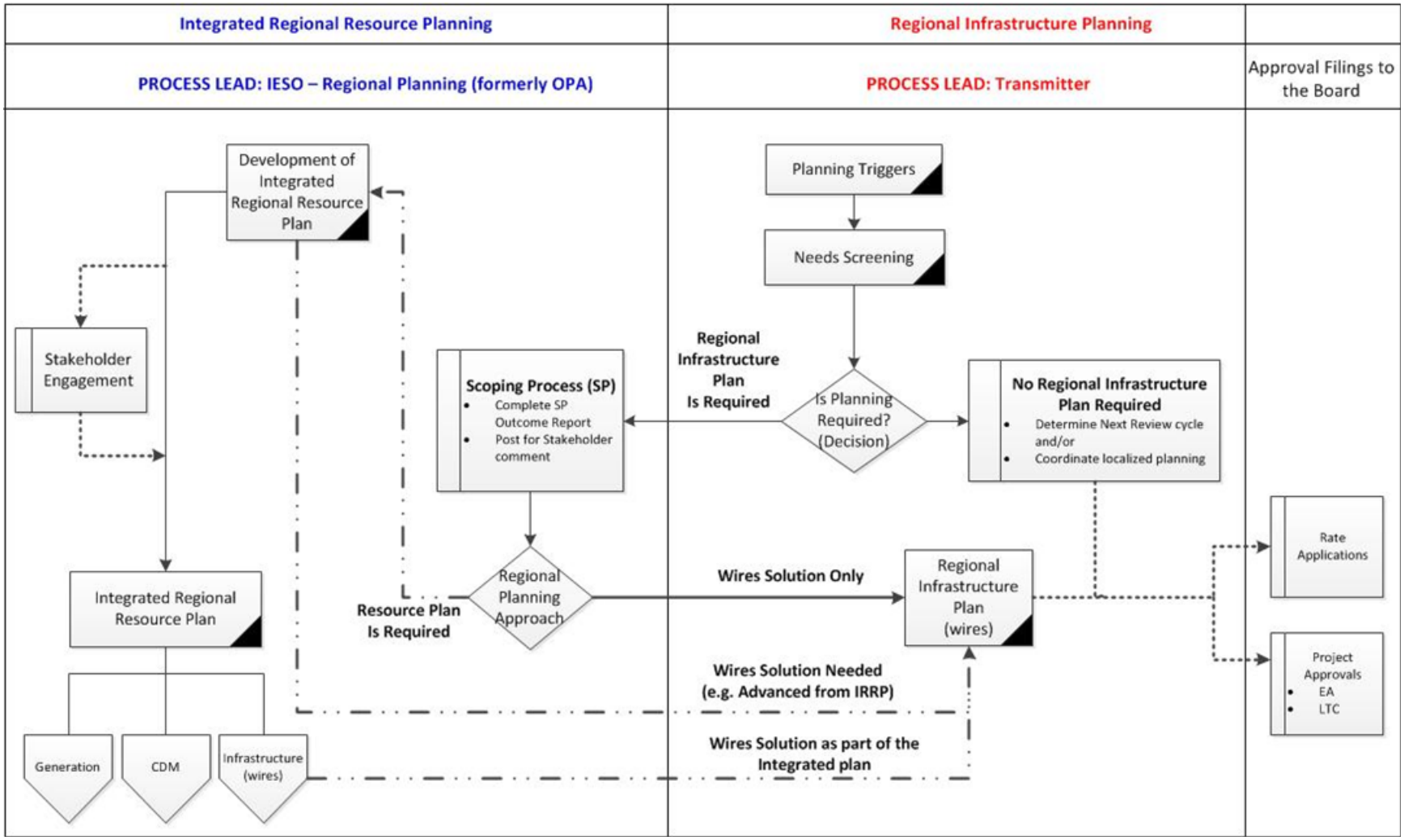

Figure 2-1 Regional Planning Process Flowchart

2.3 RIP Methodology

The RIP phase consists of a four step process (see Figure 2-2) as follows:

1. Data Gathering: The first step of the process is the review of planning assessment data collected in the previous phase of the regional planning process. Hydro One collects this information and reviews it with the Working Group to reconfirm or update the information as required. The data collected includes:
   - Net peak demand forecast at the transformer station level. This includes the effect of any distributed generation or conservation and demand management programs.
   - Existing area network and capabilities including any bulk system power flow assumptions.
   - Other data and assumptions as applicable such as asset conditions; load transfer capabilities, and previously committed transmission and distribution system plans.
2. Technical Assessment: The second step is a technical assessment to review the adequacy of the regional system including any previously identified needs. Depending upon the changes to load forecast or other relevant information, regional technical assessment may or may not be required or be limited to specific issue only. Additional near and mid-term needs may be identified in this phase.
3. Alternative Development: The third step is the development of wires options to address the needs and to come up with a preferred alternative based on an assessment of technical considerations, feasibility, environmental impact and costs.
4. Implementation Plan: The fourth and last step is the development of the implementation plan for the preferred alternative.

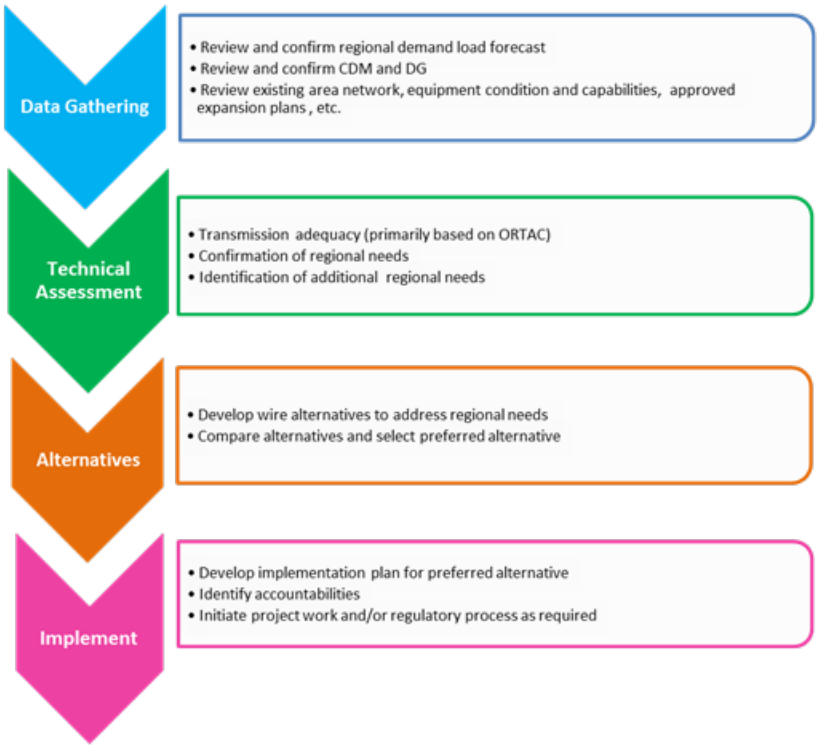

Figure 2-2 RIP Methodology

3. REGIONAL CHARACTERISTICS

THE BURLINGTON TO NANTICOKE REGION COVERS THE CITY OF BRANTFORD, MUNICIPALITY OF HAMILTON, COUNTIES OF BRANT, HALDIMAND AND NORFOLK. SOME OF THE ELECTRICAL INFRASTRUCTURE IN THE REGION IS ONE OF THE OLDEST INSTALLATIONS IN THE PROVINCE. THE PORTIONS OF CITIES OF BURLINGTON AND OAKVILLE SOUTH OF DUNDAS STREET ARE INCLUDED IN THE BURLINGTON TO NANTICOKE REGION UP TO THIRD LINE ROAD IN THE EAST.

Bulk electrical supply to the Burlington to Nanticoke Region is provided through the 500/230 kV Nanticoke TS and Middleport TS and 230 kV circuits from Middleport TS, Nanticoke TS and Beck TS. The 115 kV network is supplied by 230/115 kV autotransformers at Burlington TS, Beach TS and Caledonia TS. The area loads are supplied by a network of 230 kV and 115 kV transmission lines and step-down transformation facilities. The area has been divided into four sub-regions as shown in Figure 1-1 and described below:

- The Brant Sub-Region encompasses the County of Brant, City of Brantford and surrounding areas. Electricity supply to the sub-region is provided by:

  - Brant TS and Powerline MTS supplied by 115 kV double circuit line B12/B13.
  - Brantford TS supplied by the 230 kV double circuit transmission line M32W/M33W.

  The Brant Sub-Region transmission facilities are shown in Figure 3-1.

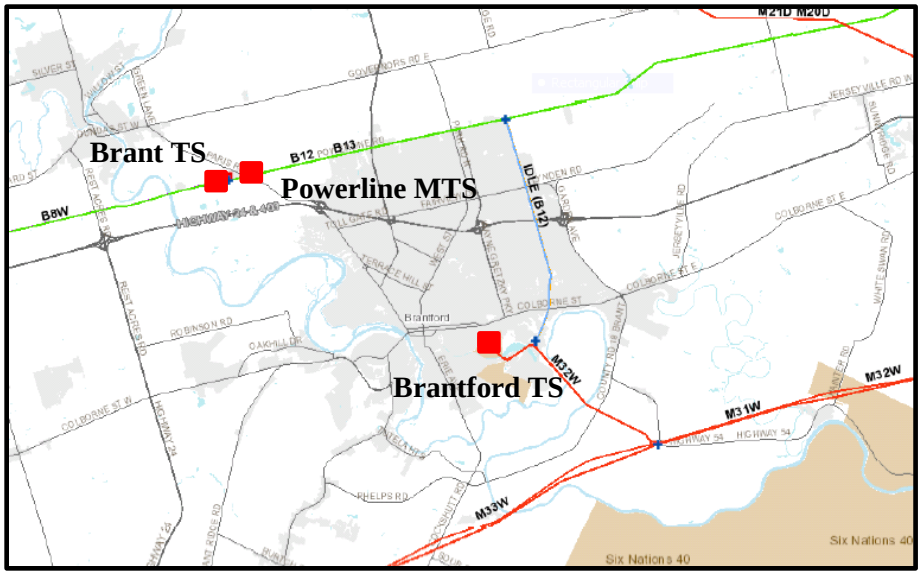

Figure 3-1 Brant Sub-Region

The total peak demand of the three stations was about 263 MW in 2015. Energy + Inc. and Brantford Power Inc. are the main LDCs that serve the electricity demand for the City of Brantford. Hydro One Distribution supplies load in the outlying areas of the sub-region. The electricity demand is comprised of residential, commercial and industrial customers.

- The Bronte Sub-Region covers the City of Burlington and the western part of the City of Oakville up to Third Line. Electricity supply to the sub-region is provided by:

  - Bronte TS supplied by 115 kV double circuit line B7/B8.
  - Burlington TS supplied by 230 kV double circuit line Q23BM/ Q25BM.
  - Cumberland TS supplied from 230 kV double circuit transmission line B40C/B41C.

  The Bronte Sub-Region transmission facilities are shown in Figure 3-2.

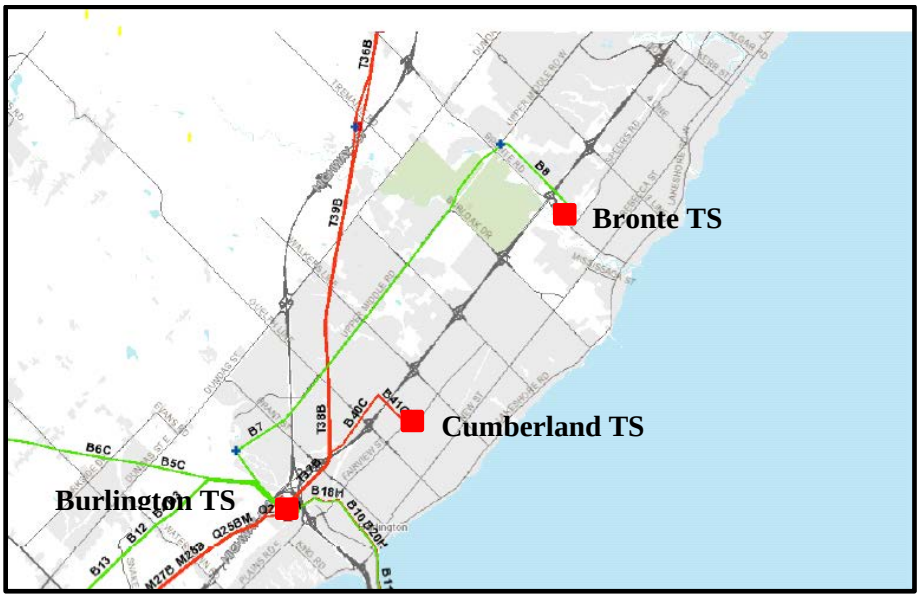

Figure 3-2 Bronte Sub-Region

The area is served by Burlington Hydro and Oakville Hydro. The electricity demand is comprised of residential, commercial and industrial customers. The total peak station demand of the three stations was about 402 MW in 2015.

- The Greater Hamilton Sub-Region encompasses the City of Hamilton that includes Townships of Flamborough and Glanbrook and towns of Dundas and Stoney Creek. Some of the electrical infrastructure in the sub-region was built over 50 years ago and is one of the oldest installations in the province. Electricity supply to the sub-region is grouped as follows:

  - Beach TS 115 kV area which includes five 115 kV step down stations Beach TS T3/T4 DESN, Birmingham TS, Kenilworth TS, Stirton TS, Winona TS and a CTS supplied from the 230/115 kV autotransformers at Beach TS.

- Burlington TS 115 kV area which includes Dundas TS, Dundas #2, Elgin TS, Gage TS, Mohawk TS, Newton TS and one customer owned CTS supplied from the 230/115 kV autotransformers at Burlington TS.

- 230 kV area which includes Beach TS T5/T6 DESN, Horning TS, Nebo TS, Lake TS and two customer owned stations supplied from 230 kV circuits connecting into Beach TS and Burlington TS.

The Greater Hamilton Sub-Region transmission facilities are shown in Figure 3-3.

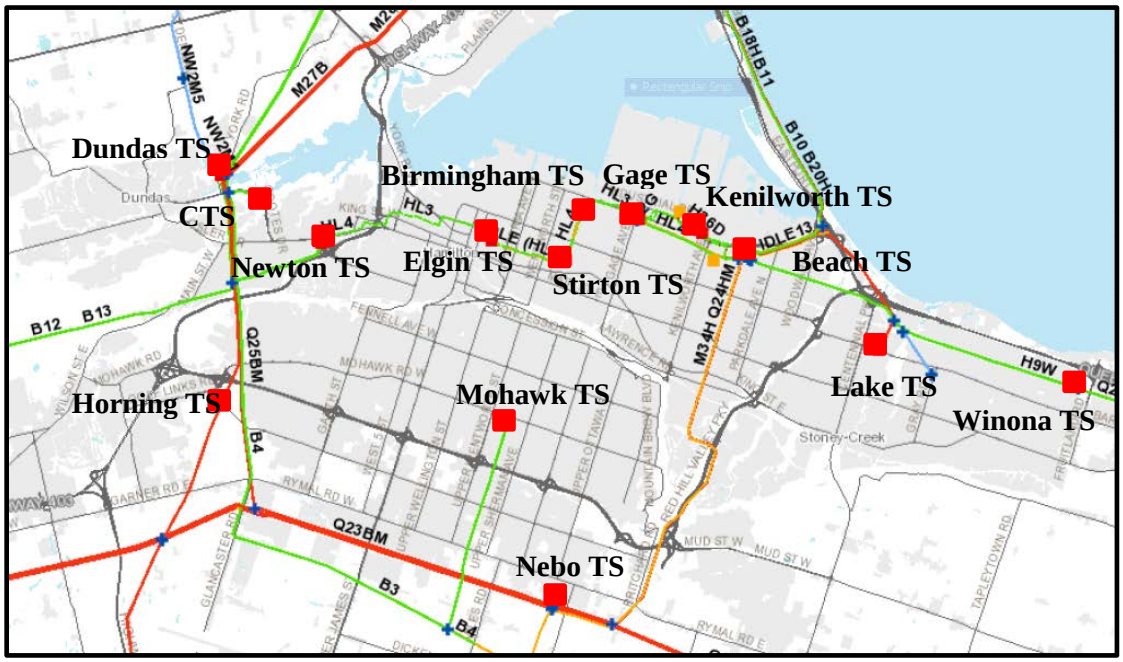

Figure 3-3 Greater Hamilton Sub-Region

The total peak station demand of the Greater Hamilton Sub-Region was about 1394 MW in 2015. The area is served by Alectra Utilities, Hydro One Distribution and CTSs comprises a significant number of large industrial customers along with commercial and residential customers.

- The Caledonia Norfolk Sub-Region covers the eastern part of Norfolk County and the western part of Haldimand County. Electricity supply to the Sub-region is provided by:

  - Caledonia TS supplied by 230 kV double circuit line N5M/S39M.
  - Jarvis TS supplied from the 230 kV double circuit line N21J/N22J.
  - Bloomsburg DS and Norfolk TS supplied from 115 kV double circuit transmission line C9/C12.

The Caledonia Norfolk Sub-Region transmission facilities are shown in Figure 3-4.

The area is served by Hydro One Distribution. The electricity demand mix is comprised of residential, commercial and industrial uses. The peak demand of the stations in the Sub-Region was approximately 334 MW in 2015.

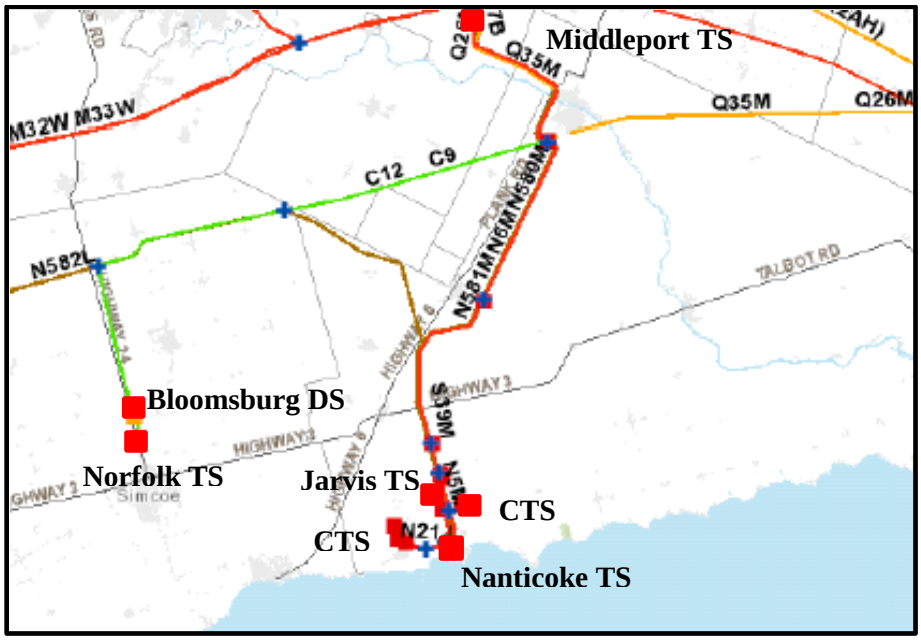

Figure 3-4 Caledonia Norfolk Sub-Region

Electrical single line diagrams for the Burlington to Nanticoke Region 500 kV/ 220 kV facilities and 115 kV facilities are shown below in Figure 3-5 and Figure 3-6.

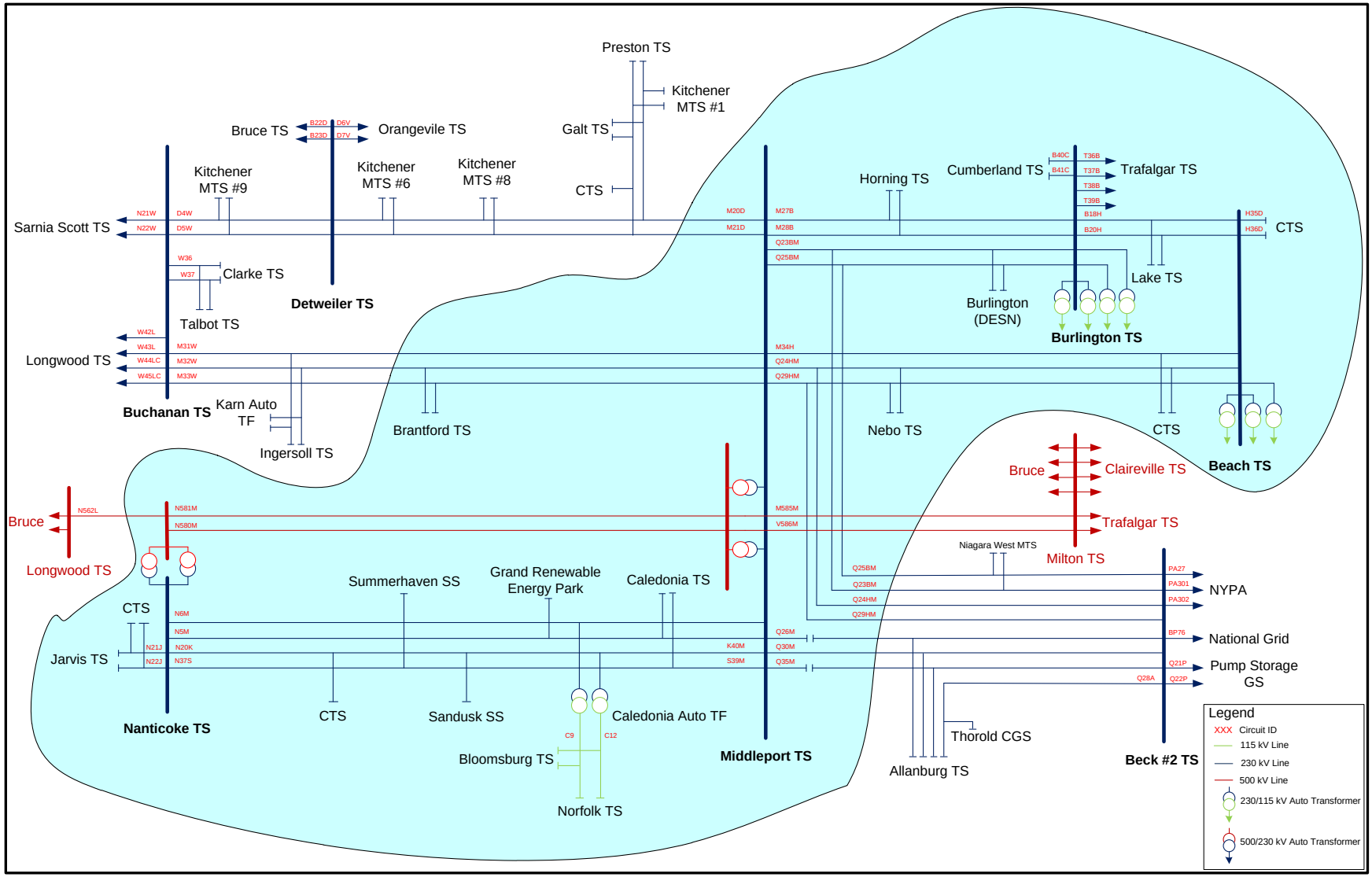

Figure 3-5 Burlington to Nanticoke Region 500 & 230 kV and Caledonia-Norfolk 115 kV Network

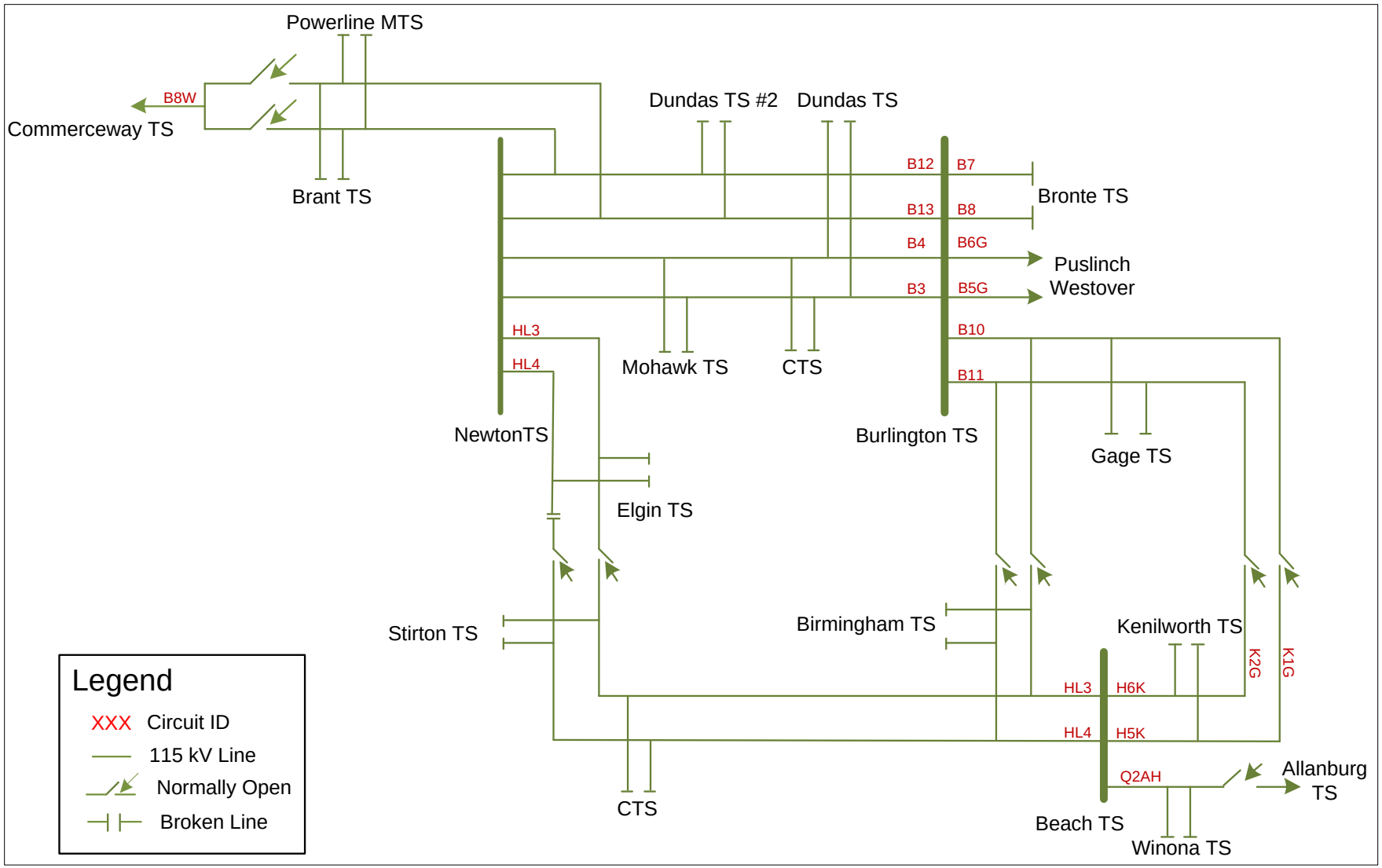

Figure 3-6 115 kV Network Supplied by Burlington TS and Beach TS

4. TRANSMISSION FACILITIES COMPLETED OVER LAST TEN YEARS

OVER THE LAST 10 YEARS A NUMBER OF TRANSMISSION PROJECTS HAVE BEEN PLANNED AND COMPLETED BY HYDRO ONE, IN CONSULTATION WITH THE LDCs AND/OR THE IESO, AIMED TO MAINTAIN OR IMPROVE THE RELIABILITY AND ADEQUACY OF SUPPLY IN THE BURLINGTON TO NANTICOKE REGION.

A brief listing of some of the major projects completed over the last ten years are as follows:

- Bronte TS (2008) - added a new low voltage breaker between T5/T6 DESN and T2 DESN units at Bronte TS.
- Burlington TS (2009) - replaced 230 kV/115 kV autotransformer T6 following failure.
- 2nd 115 kV Supply to Norfolk TS and Bloomsburg DS (2009) – Built 12 km of new 115 kV circuit to provide 2nd supply to Norfolk TS and Bloomsburg DS.
- Jarvis TS (2011) and Caledonia TS (2012) – installed LV reactors to reduce short circuit levels below the TSC limits and to allow increased generation connection capability at these stations.
- Nebo TS (2013) – replaced T1/T2 230 kV/ 27.6 kV transformers with larger size standard units and added six new breaker positions to meet customer needs.
- Burlington TS (2016) – installed an additional 230 kV circuit breaker to reduce probability of the simultaneous loss of two autotransformers at this station improving supply reliability to the stations supplied from 115 kV Burlington TS bus.
- Transformer replacement at stations: Bronte TS (2006), Norfolk TS (2009), Birmingham TS (2010), Cumberland TS (2012), Brantford TS (2013), Kenilworth TS (2014), Dundas TS (2015) and Brant TS (2016).
- Feeder Positions – added four new breaker positions at Horning TS (2006) and two new feeder breaker positions at Bronte TS (2008) to meet the customer needs.

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5. FORECAST AND OTHER STUDY ASSUMPTIONS

5.1 Load Forecast

The load in the Burlington to Nanticoke Region is growing at a slow rate with a decline of industrial loads in the region. Currently, load is forecast to increase at an average annual rate of approximately 0.24% up to 2035. The growth rate varies across the Region – with the highest growth rate of 1.37% in the Brant Sub Region.

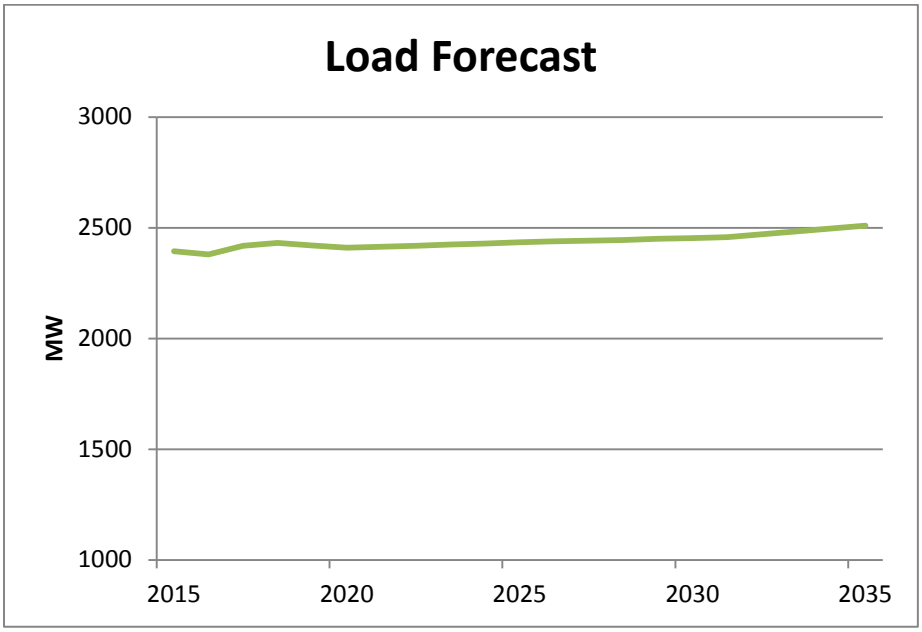

Figure 5-1 Burlington to Nanticoke Region Summer Extreme Weather Peak Forecast

Figure 5-1 shows the Burlington to Nanticoke Region peak summer non-coincident load forecast. This forecast is based on the 2015 extreme weather corrected loads. The non-coincident forecast represents the sum of the individual station's peak load and is used to determine the need for stations and line capacity. Regional non-coincident load forecast for the individual stations in the Burlington to Nanticoke Region is given in Appendix D.

The RIP load forecast was developed as follows:

- Load forecast for stations in the Bronte Sub region was taken from the IESO Bronte Sub- Region IRRP completed on June 30, 2016.
- Load forecast for Brant TS and Powerline MTS in the Brant Sub-Region was prepared by input and discussions with the LDCs recently (2016) as part of detailed planning for Brant switching station.
- Load forecast for the remaining stations was developed using the summer 2015 actual peak load adjusted for extreme weather and applying the station net growth rates provided by the LDCs. The net station loads account for CDM measures and connected DG in the region.

5.2 Other Study Assumptions

The following other assumptions are made in this report.

- The study period for the RIP assessments is 2015-2025.
- All planned facilities listed in Section 4 are assumed to be in-service.
- Where applicable, future industrial loads have been reduced based on historical information.
- Summer is the critical period with respect to line and transformer loadings. The assessment is therefore based on summer peak loads.
- Station capacity adequacy is assessed by comparing the non-coincident peak load with the station's normal planning supply capacity, assuming a 90% lagging power factor for stations having no low-voltage capacitor banks and 95% lagging power factor for stations having low-voltage capacitor banks.
- Normal planning supply capacity for transformer stations in this sub-region is determined by the Hydro One summer 10-Day Limited Time Rating (LTR).
- Adequacy assessment is conducted as per Ontario Resource Transmission Assessment Criteria (ORTAC).

6. ADEQUACY OF FACILITIES

THIS SECTION REVIEWS THE ADEQUACY OF THE EXISTING TRANSMISSION AND DELIVERY STATION FACILITIES SUPPLYING THE BURLINGTON TO NANTICOKE REGION OVER THE 2015-2025 PERIOD.

Within the current regional planning cycle three regional assessments have been conducted for the Burlington to Nanticoke Region. These studies are:

1) NA Report - Burlington to Nanticoke Region, May 23 , 2014
2) IRRP Report - Brant Sub-Region, April 28, 2015
3) Local Planning ("LP") Report – Burlington to Nanticoke Region, October 28, 2015
4) IRRP Report - Bronte Sub-Region, June 30, 2016

The NA and IRRP reports identified a number of needs to meet the forecast load demands and EOL asset issues. A review of the loading on the transmission lines and stations in the Burlington to Nanticoke Region was also carried out as part of the RIP report using the latest regional forecast as given in Appendix D. Sections 6.1 to 6.5 present the results of this review. Further description of assessments, alternatives and preferred plan along with status is provided in Section 7.

6.1 500 and 230 kV Transmission Facilities

The 500 kV and most of the 230 kV transmission circuits in the Burlington to Nanticoke Region are classified as part of the Bulk Electricity System ("BES"). They connect the Region to the rest of Ontario's transmission system. A number of these circuits also serve local area stations within the region and the power flow on them depends on the bulk system transfers as well as local area loads. In addition there are three 230 kV double circuit lines H35D/ H36D, B40C/ B41C and N21J/ N22J that supply only local loads. The circuits supplying local loads in the region are as follows (refer to Figure 3-5):

1. Middleport TS to Burlington TS 230 kV transmission circuits M27B/ M28B - supply Horning TS.
2. Middleport TS to Beck #2 TS to Burlington TS 230 kV transmission circuits Q23BM/ Q25BM /Q24HM/ Q29HM - supply Burlington (DESN) TS, Nebo TS and one customer owned CTS.
3. Middleport TS to Buchanan TS 230 kV transmission circuits M32W/ M33W - supply Brantford TS.
4. Middleport TS to Nanticoke TS 230 kV transmission circuits N5M/ S39M / N20K - supply Caledonia TS and one customer owned CTS.
5. Burlington TS to Beach TS 230 kV transmission circuits B18H/ B20H - supply Lake TS.
6. Nanticoke TS to Jarvis TS 230 kV transmission circuits N21J/ N22J - supply Jarvis TS and one customer owned CTS.
7. Beach TS to one customer owned CTS 230 kV transmission circuits H35D/ H36D.
8. Burlington TS to Cumberland TS 230 kV transmission circuits B40C/ B41C - supply Cumberland TS.

Bulk system planning is conducted by the IESO and is informed by government policy, including policy outlined in the long term energy plan ("LTEP"). Government engagement on the next LTEP is currently underway, with a new LTEP expected to be issued in Q2/Q3 2017. Bulk system needs, options and recommendations for Power System facilities serving this region will be determined by the IESO as part of the implementation plan for the 2017 LTEP.

6.2 230/115 kV Transformation Facilities

Almost half of the Region's load is supplied from the 115 kV transmission systems. The primary source of 115 kV supply is from three 230/115 kV autotransformers at Burlington TS, Beach TS and Caledonia TS.

Table 6-1 summarizes the loading levels for all three 230 /115 kV auto transformers in the Burlington to Nanticoke region.

Table 6-1 Adequacy of 230/115 kV Autotransformer Facilities

Overloaded Facilities	MVA Load Meeting Capability	2015 MVA Loading	Need Date
Burlington TS 230/115 kV autotransformers	912	745	-[(1)]
Beach TS 230/115 kV autotransformers	582	348	-[(1)]
Caledonia TS 230/115 kV autotransformer	187	88	-[(1)]

[(1)] Adequate over the study period (2015- 2025)

The autotransformers in the Burlington to Nanticoke region are of adequate capacity over the study period (2015-2025). The Needs Assessment identified a stuck breaker scenario at Burlington TS that could result in simultaneous loss of two of the four autotransformers at Burlington TS. This is a low probability scenario under which the loading on the remaining two autotransformers could exceed their short time emergency rating.

However, recently an additional 230 kV breaker has been added to the scheme reducing the possibility of simultaneous loss of two autotransformers at Burlington TS under a single contingency scenario. In addition, installation of the new 230/115 kV autotransformers at Cedar TS and 115 kV switching at Brant TS, to be in-service by 2019, will further reduce loading on the Burlington TS autotransformers.

The loading on the Burlington TS 230/115 kV autotransformers, for the simultaneous loss of two autotransformers, is therefore expected to remain within the short term rating of the two remaining in-service autotransformers at Burlington TS. No further action is required.

6.3 115 kV Transmission Facilities

The 115 kV transmission facilities can be divided in three main sections: Please see Figure 3-5 and 3-6 for the single line diagrams.

1. Burlington 115 kV – has twelve 115 kV circuits B3/B4, B5/B6, B7/B8, B10/B11, B12/B13 and HL3/ HL4. All circuits are adequate over the study period except for sections of the B7/B8 and B12/B13 circuits as given below in Table 6-2. These needs have been identified in the earlier phases of the regional planning process and are being addressed by Hydro One as per the recommendations in respective IRRPs and further discussed in this RIP (Section 7).

   The loading on the limiting sections of 115 kV circuits is summarized below in Table 6-2.

Table 6-2 Limiting Sections of 115 kV Circuits

Line Section	Overloaded Circuit	Reference Section	Capacity (MW)	Contingency	2015 Loading (MW)	Need Date
Palermo Jct. to Bronte TS	B7/ B8	Section 7.1	135	B7	129	2018
Horning Mountain Jct. to Brant TS	B12/B13	Section 7.5	125	B12/B13	119	2019

   The HL3/ HL4 115 kV double circuit cable consist of two sections:
   i. HL3/ HL4 Newton TS to Elgin TS
   ii. HL3/ HL4 Elgin TS to Stirton TS (HL4 is idle)

   These cables provide normal and backup supply to Elgin TS. The supply capacity of 115 kV HL3/ HL4 cables is adequate over the study period (2015-2025).

2. Beach 115 kV– has five 115 kV circuits H5K/ H6K, HL3/ HL4 and Q2AH expected to be adequate over the study period. There are two associated 115 kV double circuit cable sections:
   i. K1G/ K2G Kenilworth TS to Gage TS
   ii. H5K/ H6K Kenilworth TS to Beach TS

   These cables provide normal and backup supply to Kenilworth TS. The supply capacity of Beach 115 kV cables and lines is adequate over the study period (2015-2025).

3. Norfolk Caledonia – has two 115 kV circuits C9 and C12 supplying Norfolk TS and Bloomsburg DS. The need of additional supply capacity for C9/C12 double circuit line was identified during the earlier phases of the regional planning cycle.

   The updated load forecast and further assessment as part of this RIP shows that the combined load of Norfolk TS and Bloomsburg DS will remain below the supply capacity of 87 MW of C9/ C12 line during the study period and no further action is required.

The list of all the 230 kV and 115 kV circuits is given in Appendix A.

6.4 Step-Down Transformation Facilities

There are a total of 31 step-down transmission connected transformer stations in the Burlington to Nanticoke Region. The stations have been grouped based on the geographical area and supply configuration. The station loading in each area and the associated station capacity is provided in Table 6-3 below. The complete list of all the stations in the Burlington to Nanticoke region and their supply circuits is given in Appendix B.

Table 6-3 Adequacy of Step-Down Transformer Stations

Area/Supply	Capacity (MW)	2015 Loading (MW)	Need Date
Brant Sub-Region	403	263	-(2)
Bronte Sub-Region	530	402	-(2)
Greater Hamilton Sub-Region (1)	1919	1108	-(2)
Caledonia Norfolk Sub-Region (1)	351	211	-(2)

(1) Excludes Customer Transformer Stations (CTS)
(2) Adequate over the study period (2015-2025)

Dundas TS has two DESN units T1/T2 and T5/T6. During the earlier phases of the Regional Planning cycle T1/T2 DESN at Dundas TS was found to be loaded over its supply capacity due to unbalanced loading between the two Dundas TS DESNs. The current loading at both DESNs at Dundas TS is within each DESN's supply capacity. Further assessment as part of this RIP based on current forecast confirms that the loads on each of the Dundas TS DESNs will remain within its supply capacity during the study period. No further action is required.

Nebo TS 13.8 kV T3/T4 DESN was also identified as marginally over loaded during an earlier phase of the regional planning cycle. Further assessment as part of this RIP based on updated forecast confirms that the loads on the Nebo TS T3/T4 DESN will remain within its supply capacity during the study period. No further action is required.

6.5 System Reliability and Load Restoration

In case of contingencies on the transmission system, ORTAC provides the load restoration requirements relative to the amount of load affected. Planned system configuration must not exceed 600 MW of load curtailment/rejection. In all other cases, the following restoration times are provided for load to be restored for the outages caused by design contingencies.

a. All loads must be restored within 8 hours.
b. Load interrupted in excess of 150 MW must be restored within 4 hours.
c. Load interrupted in excess of 250 MW must be restored within 30 minutes.

It is expected that all loads can be restored within 8 hours in the Burlington to Nanticoke Region over the study period. None of the transmission circuits in the Burlington to Nanticoke region will be supplying total loads in excess of 250 MW. The following double circuit lines in the Burlington to Nanticoke Region are expected to supply the loads in excess of 150 MW at peak times:

- B12/ B13
- B3/ B4
- H35D/ H36D
- HL3/ HL4
- M32W/ M33W
- Q23BM/ Q25BM
- Q24HM/ Q29HM

Based on the historical performance and reliability data for these circuits in the region, the Working Group recommended that no action is required at this time.

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7. REGIONAL NEEDS & PLANS

THIS SECTION DISCUSSES THE ELECTRICAL INFRASTRUCTURE NEEDS FOR THE BURLINGTON TO NANTICOKE REGION AND SUMMARIZES THE REGIONAL PLANS FOR ADDRESSING THESE NEEDS. THESE NEEDS INCLUDE NEEDS PREVIOUSLY IDENTIFIED IN THE NEEDS ASSESSMENT, SCOPING ASSESSMENT, IRRPS FOR THE BRANT, AND BRONTE SUB-REGIONS, ASSESSMENTS CARRIED OUT IN SECTION 6 AS WELL AS EMERGING NEEDS DUE TO AGING INFRASTRUCTURE AND END OF LIFE ISSUES.

This section outlines and discusses infrastructure needs and plans identified for the Burlington to Nanticoke Region and recommended plans and/or next steps for the near-term (up to 5 years) and the mid-to long-term (beyond 5 years).

It should be noted that this RIP, in addition to advancing the work from the aforementioned IRRPs, also identifies additional needs related to sustainment and end-of-life facilities in the Hamilton area. Built over 50 years ago, the transmission assets in the Hamilton area are some of the oldest installations in the province. At the time of the Burlington to Nanticoke Need Assessment and Scoping Assessment phases, done in 2014, the detailed information on the condition and end-of-life issues related to these assets was not available. As such, a decision was made by the Working Group at that time to not initiate a coordinated planning exercise for the Hamilton subsystem. Since then, through the RIP process, the extent and urgency of the sustainment work in the Hamilton area, and also in Oakville and Brantford, are better known by the Working Group.

This RIP discusses those needs and the projects developed to address those needs. Implementation to address some of these needs is already or nearly underway. The plans presented in this RIP to address new end-of-life needs have been developed by Hydro One and needs also confirmed by the LDC. Further details are being formalized by Hydro One through assessment and consultation with the LDC to develop implementation plans. The plans for Beach TS, Birmingham TS, Gage TS and Kenilworth TS were later reviewed by the IESO as part of an ongoing study for the Hamilton area. However, new near and mid-term needs namely Horning TS, Elgin TS, and Bronte TS were not fully identified earlier in the regional planning process and did not undergo a review by the IESO in the earlier phases due to their scope or project status.

The RIP report also identifies long-term needs associated with the revised and better defined sustainment plan. These needs will be assessed in the next planning cycle. A summary of all of these needs in the near-term (2016-2020) and mid to long-term (beyond 2020) are listed in Table 7-1 and Table 7-2, respectively, along with their in-service date, where applicable. Table 7-1 identifies both the stakeholders involved in each project's development and which formal regional planning process it originated from and provide reference to sub-sections with further details for each of the need. The table also indicates the needs identified after the completion of the NA and SA processes.

Table 7-1 Identified Near-Term Needs in Burlington to Nanticoke Region

No.	Needs	Section	Timing
Projects Developed in Local Planning or an IRRP			
1	115 kV B7/B8 Transmission Line Capacity	7.1	2018
2	115 kV B12/B13 Transmission Line Capacity	7.2	2019
3	Two New Feeders at Dundas TS	7.3	2019
4	Cumberland TS – Power Factor Correction	7.4	TBD
5	Kenilworth TS – Power Factor Correction	7.5	TBD
Projects Developed by HONI & the LDC(s), Reviewed by IESO			
6	Kenilworth TS – EOL transformers & switchgear (1)	7.6	2018
7	Beach TS – EOL T3/T4 DESN Transformers (1)	7.7	2019
8	Gage TS – EOL transformers & switchgear	7.8	2019
9	115 kV B7/B8 – EOL Line Section from Burlington TS to Nelson Jct. (1)	7.9	2020
Projects Developed by HONI & the LDC(s)			
10	115 kV B3/B4 – EOL Line Section from Horning Mountain Jct. to Glanford Jct. (1)	7.10	2018
11	Horning TS – EOL transformers & switchgears (1)	7.11	2018
12	Bronte TS – EOL T5/T6 DESN (1)	7.12	2019
13	Elgin TS – EOL transformers & switchgears	7.13	2019
14	Mohawk TS (T1/T2) – Station Capacity & EOL T1/T2 Transformers	7.14	2019

(1) New needs identified by HONI

The mid- and long-term (2021-2025) electrical infrastructure needs in the Burlington to Nanticoke Region are summarized below in Table 7-2. Where available, a preliminary plan to address that need is provided in the corresponding sub-section.

Table 7-2 Identified Mid- and Long-Term Needs in Burlington to Nanticoke Region

No.	Needs	Section	Timing
1	Birmingham TS EOL Metalclad Switchgears	7.15	2021
2	Dundas TS EOL T1/T2 Switchgear	7.16	2021
3	Newton TS EOL Transformers, Switchgears, Breakers	7.17	2021
4	Brantford TS EOL Switchgear	7.18	2022
5	Lake TS EOL Switchgear	7.18	2022

No.	Needs	Section	Timing
6	Stirton TS EOL Switchgear	7.18	2022
7	Beach TS EOL T7/T8 Auto-transformers and T5/T6 Switchgear	7.19	2025
8	EOL Cables in Hamilton area: H5K/H6K, K1G/K2G, HL3/HL4	7.20	TBD

The needs identified in the Burlington to Nanticoke Region in the above Tables 7-1 and Table 7-2 are further discussed below.

7.1 115 kV Circuit B7/B8 Transmission Line Capacity (Burlington TS to Bronte TS)

7.1.1 Description

Bronte TS is radially supplied by the 115 kV double circuit B7/ B8 line from Burlington TS. The supply capacity of Bronte area is limited to 135 MW due to loading on B7/B8 exceeding its thermal capacity following a loss of either of the circuits starting in 2018. In 2021, the post contingency voltage drop for the loss of either circuit will also exceed the ORTAC limit of 10% at Bronte TS. The load in Bronte area is forecasted to exceed the 135 MW supply limit and reach about 150 MW during the study period.

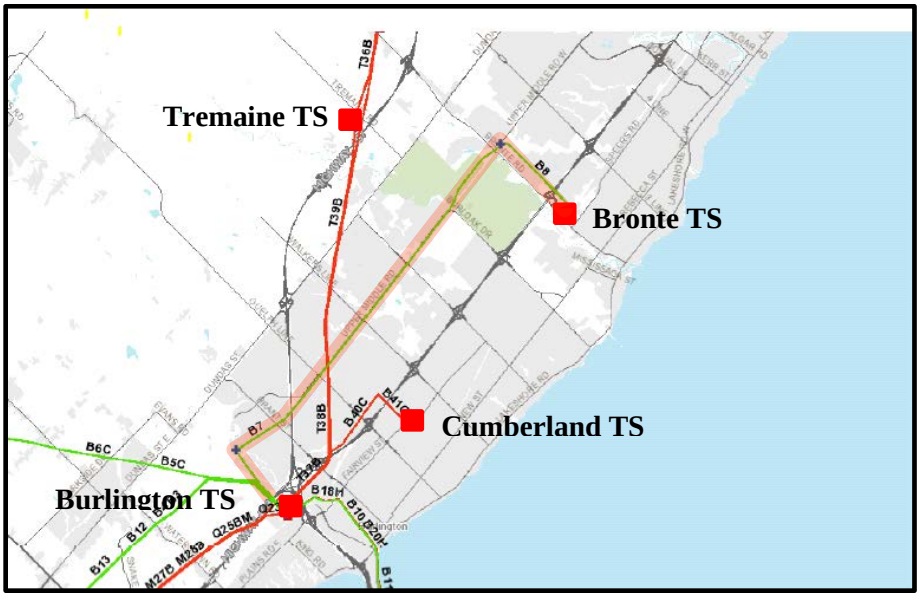

Figure 7-1 Bronte TS Supply Circuits B7/B8

7.1.2 Recommended Plan

The Working Group considered and reviewed different options to provide relief to the 115 kV circuits supplying Bronte TS as part of the Bronte area IRRP. The options included: a) upgrading of transmission system to mitigate the limitation on the 115 kV B7/ B8 circuits and b) Distribution option to transfer load

from Bronte TS to neighboring station(s). Upgrading of transmission system was neither economical nor a practical solution.

Consistent with the WG recommendations in the IRRP, the most cost effective and preferred alternative is for LDC(s) to transfer loads from Bronte TS to other neighboring stations and to maintain Bronte TS loading below 135 MW.

Hydro One and the affected LDCs will develop a plan by the end of 2017 for transferring approximately 15 MW of load from Bronte TS to the neighboring station(s). The estimated cost of investments for the distribution load transfer is currently expected to be in the order of $1-3 million.

7.2 115 kV Circuit B12/B13 Transmission Line Capacity (Burlington TS to Brant TS)

7.2.1 Description

Brant TS and Powerline MTS in Brant County are supplied by the 115 kV double circuits B12/B13 line from Burlington TS. The Brant area is experiencing higher growth with a number of new industrial customers planning to connect over the next few years. The combined load of Brant TS and Powerline MTS was 119 MW in summer 2015 and exceeds the 104 MW supply capacity of the B12/B13 line.

7.2.2 Recommended Plan

As per the IRRP recommendations, first phase was to provide additional capacity for the Brant Area's 115 kV supply that included installation of 40 MVAR capacitor banks at Powerline MTS in July 2015. This has increased the line supply capacity to 125 MW.

In addition, the IRRP Working Group considered other options to provide additional 115 kV capacity to supply Brant TS and Powerline MTS to address future load growth over the near-term. The most economical option that was recommended by the WG is to install a three breaker switching station at Brant TS and using the existing backup supply from 115 kV circuit B8W (from Karn TS) as third supply. A single line diagram of the new switching facilities at Brant TS is shown below in Figure 7.2.

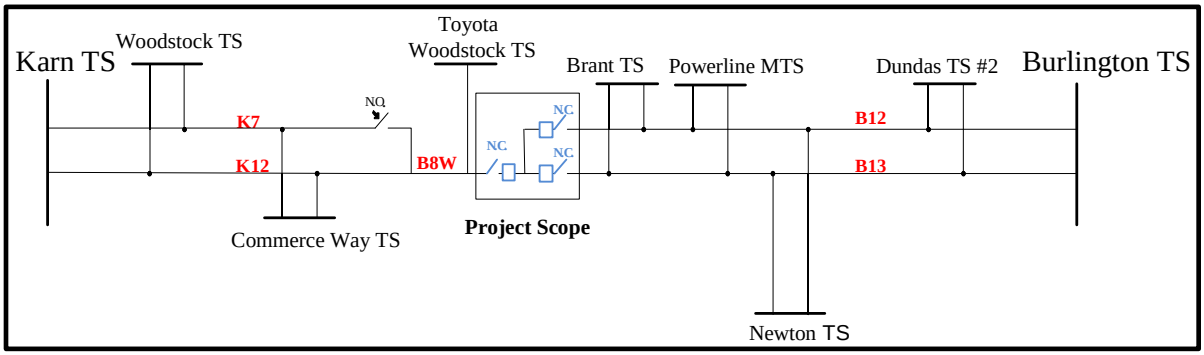

Figure 7-2 Brant Sub-Region Proposed Configuration

Hydro One has initiated detailed engineering work and design. The project is expected to be in-service by spring 2019 and is estimated to cost approximately $12 million. The installation of the switching station will reclassify some of the line connection assets as Network Assets. The project cost will be recoverable from the rate revenue and/or capital contribution from the LDCs in accordance with the TSC.

7.3 Two New Feeders at Dundas TS

7.3.1 Description

Dundas TS has two DESN units T1/T2 and T5/T6 with a total 2015 summer peak load of 148 MW and a station supply capacity of 188 MW. The station capacity is forecasted to be sufficient over and beyond the study period.

A LDC currently supplied from the T1/T2 DESN is planning to transfer load to T5/T6 DESN and supplied from two existing spare breaker positions to meet increased load needs. This will also help in balancing the loads between the two Dundas TS DESNs.

7.3.2 Alternatives, Recommended Plan and Current Status

The following alternatives were considered to address customer's needs:

- Maintain status quo: This alternative was considered and rejected as it does not address the customer's needs.
- Transfer customer load to T5/T6 DESN: Move portion of LDC customer loads from T1/T2 DESN to T5/T6 DESN utilizing two spare breaker positions at T5/T6 DESN. This will require reconfiguring of distribution assets by the LDC and will also help improving load balancing between two Dundas TS DESNs.

The preferred plan is to proceed with moving portion of the LDC's customer load from T1/T2 DESN to T5/T6 DESN utilizing two spare breaker positions. The transfer of load from T1/T2 DESN to T5/T6 DESN is planned to be completed in 2019 at an estimated cost of $8 million.

7.4 Cumberland TS Power Factor Correction

7.4.1 Description

The Cumberland TS supplies up to 123 MW of loads in the city of Burlington. The historical loading data of Cumberland TS indicated that under peak load conditions the power factor at Cumberland TS is lagging slightly below the ORTAC requirement of 0.9.

7.4.2 Recommended Plan and Current Status

The Needs Assessment identified this need and it was recommended that Burlington Hydro to work with their load customers supplied by Cumberland TS and install capacitor banks on distribution system as required to meet the minimum power factor requirements of 0.9.

Burlington Hydro is currently perusing different options to improve the power factor of customer loads supplied by Cumberland TS to meet ORTAC requirement. This issue will be further reviewed during the next regional planning cycle.

7.5 Kenilworth TS Power Factor Correction

7.5.1 Description

There are two supply stations inside Kenilworth TS T1/T4 and T2/T3 supplying about 60 MW of loads in the city of Hamilton. The historical loading data of Kenilworth TS indicated that under peak load conditions the power factor at Kenilworth TS is lagging below the ORTAC requirement of 0.9.

7.5.2 Alternatives and Recommended Plan

The Needs Assessment identified this need and it was recommended that Alectra Utilities to install capacitor bank on distribution system and/or work with load customers supplied by Kenilworth TS to meet ORTAC power factor requirement of 0.9.

Alectra Utilities is currently perusing option on cost and location to install equipment to improve power factor to meet ORTAC requirement. This issue will be further reviewed during the next regional planning cycle.

7.6 Kenilworth TS End of Life Assets

7.6.1 Description

There are two DESN units T1/T4 and T2/T3 inside Kenilworth TS supplying loads in the city of Hamilton and built in 1950's and 1960's respectively. The load at Kenilworth TS is currently about 60 MW. The T1/T4 transformers are rated at 67 MVA each while the T2/T3 transformers are 100MVA and 120 MVA, respectively, which are non-standard as per current standards. Non-standard and obsolete equipment results in complexity with failures and difficulty in getting similar spare equipment along with their installation. The original 120 MVA T2 transformer was replaced with a standard 100 MVA transformer unit in 2014 due to failure. In addition, one of the three metalclad switchgears at Kenilworth TS is presently out of service while the second in-service metalclad switchgear is approaching end of its useful life. As a result, near-term plan is developed to address the failure and EOL issues.

7.6.2 Alternatives and Recommended Plan

The following alternatives are considered to address end of life issue at Kenilworth TS:

- Maintain status quo: This alternative was considered and rejected as it does not address the risk of failure due to asset condition and would result in increased maintenance expenses and reduce supply reliability to the customers.
- "Like-for-Like" replacement of the assets: This alternative would require maintaining four transformers and the associated three switchgears which is not justifiable based on the load forecast.
- Station/load consolidation: Moving loads to neighboring station(s) and retiring Kenilworth TS. This alternative was considered but is not feasible due to: a) unique electrical characteristics and requirements of industrial costumer load in the area, and b) higher costs associated with reconfigurations and transfer of customer loads.
- Reconfiguration of the station reducing to two supply transformers and two switchgears: This option will reconfigure and adequately downsize the station. In this configuration, station will be reduced from four transformers to only two transformers supplying two switchgears.

The preferred plan is for Hydro One to proceed with the reconfiguration of the station and reduce it to two transformers and two switchgears only. The recently replaced transformer and one of the existing metalclad switchgear will be utilized while one transformer and switchgear will be required to be replaced. The new transformer will be a standard unit similar to T2 that was replaced in 2014. This refurbishment project is currently planned to be completed by the year 2018 at an estimated cost of $19 million.

7.7 Beach TS EOL T3/T4 DESN Transformers

7.7.1 Description

Beach TS has two DESN units T3/T4 and T5/T6 supplying loads in the city of Hamilton and built in 1950's and 1960's respectively. The T3/T4 DESN is supplied by the 115 kV bus while the T5/T6 DESN is supplied from the 230 kV bus at Beach TS. The 115/13.8 kV T3/T4 DESN transformers have been identified by Hydro One approaching the end of their useful life and require replacement. The load at Beach TS T3/T4 DESN is currently about 32 MW and is forecasted to stay at the same level in the foreseeable future.

7.7.2 Alternatives and Recommended Plan

The following alternatives are considered to address Beach TS T3/T4 supply transformer end of life issue:

- Continue to maintain the assets (status quo): This alternative was considered and rejected as it does not address the risk of failure due to asset condition and would result in increased maintenance expenses and reduce supply reliability to the customers.
- "Like-for-Like" replacement of the assets: Replacing existing EOL 115/ 13.8 kV T3/T4 DESN transformers with similarly sized units.

- Reconfigure 115 kV T3/T4 transformers to a 230 kV configuration by replacing the existing non-standard 115/ 13.8 kV (67 MVA + 75 MVA) transformers with standard 100 MVA 230/13.8 kV units.

Keeping the existing supply configuration at 115 kV of T3/T4 transformers at Beach TS is not possible as it does not meet safety clearance requirements. In light of this and the fact that moving the transformer supply configuration from 115 kV to 230 kV bus is similar in cost plus has other long-term advantages, such as the 230 kV supply option will result in reduced loading levels of 230/115 kV Beach TS autotransformers resulting in freeing up capacity and improve supply reliability.

The preferred plan is for Hydro One to proceed with reconfiguring the 115 kV T3/T4 DESN to a 230 kV configuration by replacing the existing non-standard transformers with standard 100 MVA 230/13.8 kV units is the most suitable option. The project is currently underway, and is expected to be completed in 2019. The cost of this investment is currently estimated at about $17 million.

7.8 Gage TS End of Life T3/T4/T5/T6 Transformers and a Switchgear

7.8.1 Description

Gage TS has three DESNs (T3/T4, T5/T6, and T8/T9) predominantly supplying large industrial customer loads in Hamilton. T3/T4 and T5/T6 DESNs were built in the 1940's with each transformer rated at 63 MVA LTR, while T8/T9 DESN was built in 1960's with each transformer rated at 137 MVA LTR. These transformers are non-standard with unique electrical characteristics with high short circuit requirements of the customer. The transformers T3, T4, T5, and T6, as well as T5/T6 DESN at Gage TS have been identified by Hydro One at their EOL and have been previously deferred to better understand customer load requirements. Transformer T5 has failed multiple times and breakers in the T5/T6 DESN have experienced recurring problems. No issues or refurbishment needs have been identified at T8/T9 DESN at this time.

The load at Gage TS has reduced over the years to approximately 48 MW, and is currently expected to stay at this level over the study period. The existing station capacity (of the three DESNs) is about 240 MW. Although there seems to be over-capacity at Gage TS, unique short-circuit and connection requirements of industrial loads at this station limits the feasibility of some of the alternatives/solutions.

7.8.2 Alternatives, Recommended Plan and Current Status

The following alternatives were considered to address end of life issues at Gage TS:

- Maintain status quo: This alternative was considered and rejected as it does not address the risk of failure due to asset condition, safety issues and would result in increased maintenance expenses and will not meet Hydro One's obligation to provide reliable supply to the customers.
- "Like-for-Like" replacement of the assets: This alternative would continue maintaining six transformers and the associated three switchgears. This option is extremely costly and cannot be justified since the load has significantly reduced at this station.

- Station/load consolidation: Moving loads to neighboring station(s) and retiring Gage TS. This alternative is not feasible due to: a) unique costumer load requirements (i.e., high short circuit currents are required to operate customer's large arc furnaces and large motors without significant impact to power quality), and b) higher costs associated with reconfigurations of LV cables and transfer of customer loads to other stations.
- Reconfiguration of the station and downsize the station from three DESN to two DESN station: In this option, the station will be reconfigured and downsized from the existing six transformers to four transformers.

The preferred plan is for Hydro One to proceed with the reconfiguration of the station and reduce it from 3 DESNs to 2 DESNs. Under this plan, T3/T4 and T5/T6 DESNs will be replaced by a single T10/T11 DESN with two 100 MVA standard units and switchgear currently supplied by T5/T6 transformers will also be replaced. This option will also provide future flexibility to eliminate T8/T9 DESN when it approached EOL.

The refurbishment of Gage TS is currently expected to be completed in 2019 at an estimated cost of $37 million.

7.9 115 kV Circuit B7/B8 End of Life Section (Burlington TS to Nelson Junction)

7.9.1 Description

The 115 kV double circuit line B7/B8 line supplies about 130 MW of Burlington and Oakville area loads through Bronte TS. The line section from Burlington TS to Nelson junction (about 2.3 km) was built in 1920's. Hydro One has identified that the conductor on this line section from Burlington TS to Nelson junction has reached end of useful life.

7.9.2 Alternatives and Recommended Plan

The following alternatives are considered to address 115 kV B7/B8 end of life line section from Burlington TS to Nelson junction:

- Maintain status quo: This alternative was considered and rejected as it does not address the EOL issue, risk of failures resulting in poor supply reliability and would result in increased maintenance expenses.
- Refurbishment of EOL line section: Refurbish 2.3 km of EOL line conductor section of B7/B8 line section.

The preferred plan is to proceed with the refurbishment of the 115 kV B7/ B8 line section from Burlington TS to Nelson junction supplying Bronte TS using similar ACSR conductor. The refurbishment work is planned to be completed by the year 2020 and estimated to cost approximately $2 million.

7.10 115 kV B3/B4 End of Life Line Section (Horning Mountain Jct. to Glanford Jct.)

7.10.1 Description

The 115 kV B3/B4 line supplies Hamilton area loads through Dundas TS (T1/T2 DESN), a CTS and Mohawk TS. Mohawk TS is supplied from B3/B4 line through about 16 km long line-tap supplying about 84 MW of load. A section of this line tap has a solid copper conductor from Horning Mountain Jct. to Glanford Jct. which is approximately 100 year old and has reached end of useful life.

7.10.2 Alternatives and Recommended Plan

The following alternatives are considered to address the above need:

- Continue to maintain the assets (status quo): This alternative was considered and rejected as it does not address the frequent failure, increased maintenance expenses and poor supply reliability.
- Refurbishment of EOL line section: Replace EOL copper conductor with 605 kcmil ACSR conductor Mohawk TS line tap section.

The preferred plan is for Hydro One to replace this EOL copper conductor with 605 kcmil ACSR from Horning Mountain Jct. to Glanford Jct. supplying Mohawk TS. This work is currently planned to be completed by 2018 at an estimated cost of $8 million.

7.11 Horning TS End of Life Assets

7.11.1 Description

Horning TS is a 230/13.8 kV DESN station built in 1967 and supplies Alectra Utilities loads in the Hamilton area. It has two station supply transformers of 100 MVA each supplying load through its two metalclad switchgears. Recent equipment failures in 2016 due to aging low voltage switchgear have adversely impacted supply to customers in the Hamilton area along with safe operations.

In addition, both the transformers and both low voltage switchgears at Horning TS are approaching end of expected useful life and have been identified by Hydro One for replacement. The load at Horning TS is currently about 70 MW and is forecasted to stay at the same level during the study period.

7.11.2 Alternatives and Recommended Plan

The following alternatives are considered to address Horning TS end of life issue:

- Continue to maintain the assets (status quo): This alternative was considered and rejected as it does not address the risk of failure due to asset condition and would result in increased maintenance expenses and reduce supply reliability to the customers.

- "Like-for-Like" replacement of the assets: This alternative would continue maintaining current station configuration and only replace existing transformers will similar units and refurbish both metalclad switchgears.

The preferred plan is for Hydro One to proceed with Like-for-Like replacements replacing supply transformers with similar 100 MVA units and refurbishing EOL low voltage metalclad switchgears. The new replaced transformers and refurbished switchgear will provide sufficient capacity to serve the load over the study period. The project is currently underway, and is expected to be completed in 2018. The cost of this investment is estimated to be about $37 million.

7.12 Bronte TS End of Life T5/T6 DESN

7.12.1 Description

Bronte TS was placed in service in 1963 and is radially supplied from Burlington TS via 115 kV B7/ B8 circuits. The total load at Bronte TS is currently about 129 MW and is forecasted to stay at about 135 MW with load transfers as proposed in section 7.1.

There are three transformers, T2 (single transformer configuration), and T5/T6 DESN (83 MVA), at Bronte TS supplying loads in the cities of Oakville and Burlington. Transformer T2 was replaced in 2006 and the T5/T6 DESN transformers at Bronte TS and LV switchgear is approaching end of expected useful life. Hydro One has identified that these transformers require replacement.

7.12.2 Alternatives and Recommended Plan

The following alternatives are considered to address end of life Bronte TS T5/T6 DESN refurbishment:

- Continue to maintain the assets (status quo): This alternative was considered and rejected as it does not address the risk of failure due to asset condition and would result in increased maintenance expenses and reduce supply reliability to the customers.
- "Like-for-Like" replacement of the assets: Replacing existing EOL 115/ 27.6 kV T5/T6 DESN transformers with similar size standard units and refurbish switchgear.

The preferred plan is for Hydro One to proceed with Like-for-Like replacement. This will include replacing existing 83 MVA T5/T6 transformers with similar units and refurbishing associated switchgear. This investment is estimated to be approximately $34 million with planned in-service of 2019.

7.13 Elgin TS End of Life Assets

7.13.1 Description

Elgin TS has two DESNs (T1/T2 and T3/T4) built in 1960's supplying loads in the city of Hamilton through three switchgears. The current load at Elgin TS is approximately 85 MW, and is currently expected to stay at this level over the study period.

The T1/T2 transformers are 75 MVA units while the T3/T4 units are non-standard 33 MVA units. All existing four transformers (T1, T2, T3, and T4) and three switchgears at Elgin TS have been identified by Hydro One as approaching end of their useful life. This need was identified in the Needs Assessment phase.

7.13.2 Alternatives, Recommended Plan and Current Status

The following alternatives were considered to address end of life issues at Elgin TS:

- Maintain status quo: This alternative was considered and rejected as it does not address the risk of failure due to asset condition, safety issues and would result in increased maintenance expenses and will not meet Hydro One's obligation to provide reliable supply to the customers.
- "Like-for-Like" replacement of the assets: This alternative would continue maintaining four transformers and the associated three switchgears. This option is extremely costly and cannot be justified with load forecast not showing any growth at this station.
- Reconfiguration and downsize the station from two DESNs to one DESN station: In this option, the station will be reconfigured and downsized from the existing four transformers to two transformers.

The preferred plan is for Hydro One to proceed with the reconfiguration of the station and reduce it to two transformers and two switchgears only. Under this plan, T1/T2 and T3/T4 DESNs will be replaced by a single T5/T6 DESN with two 100 MVA standard units and four new switchgears. This will maintain adequate supply capacity to the loads through the four new switchgears. The cost of this investment is expected to be $58 million with a planned in service of 2019.

7.14 Mohawk TS Station Supply Capacity & End of Life T1/T2 Transformers

7.14.1 Description

Mohawk TS is a 115/13.8 kV step down transformer station supplied from 115 kV circuit B3/B4 from Burlington TS supplying loads in the city of Hamilton. The station supply capacity is limited to 80 MW by the LTR of transformers. The 2015 summer peak load was 84 MW and the station is marginally over its supply limits during peak load periods. In addition, transformers at Mohawk TS are over 50 years old and condition assessment has identified Mohawk TS transformers approaching end of their useful life.

7.14.2 Alternatives and Recommended Plan

The following alternatives were considered to address Mohawk TS end of life transformer issue:

- Maintain status quo: This alternative was considered and rejected as it does not address the risk of failure due to asset condition, poor supply reliability and would result in increased maintenance expenses. In addition option will not address the capacity needs at the station,
- Transformer replacement: Replacing the existing non-standard (67 MVA) end of life transformers with new standard (75 MVA) units.

The preferred plan is for Hydro One to proceed with the replacement of existing nonstandard supply transformers at Mohawk TS with the standard 75 MVA units. This will address the issue of: a) EOL transformers, b) replace non-standard equipment with standard units, and c) will provide sufficient station supply capacity. In the interim, Alectra Utilities will manage the overloads (under contingency) by distribution loads transfers. The transformer replacement project is currently expected to be in service by 2019 at an estimated cost of $14 million.

7.15 Birmingham TS End of Life Switchgear

7.15.1 Description

Birmingham TS is located in the city of Hamilton having two DESN units T1/T2 and T3/T4 of 75 MVA each. Both the DESNs at Birmingham TS can supply a total load of about 185 MVA (LTR). The Birmingham TS currently supplies a large industrial customer with unique connection requirements. The load at Birmingham TS is forecasted at about 75 MW.

At this time transformers and/or other HV equipment at this station has not been identified as EOL over the study period. However, two 13.8 kV LV metalclad switchgears are at EOL and have been identified by Hydro One for refurbishment.

7.15.2 Recommended Plan

The two end of life 13.8 kV LV end of life metalclad switchgears at Birmingham TS are required to be replaced to meet the unique connection needs of the customer at this station. Not replacing the end of life switchgears will increase the risk of failure due to asset condition and adversely impact supply to a large industrial customer. Currently Hydro One plans to complete this by 2021. This need will be further reviewed in the next regional planning cycle.

7.16 Dundas TS End of Life Switchgear

7.16.1 Description

Dundas TS has two DESN units T1/T2 and T5/T6 with a total 2015 summer peak load of 148 MW and station capacity of 188 MW. The station capacity is forecasted to be sufficient over and beyond the study period. The T1/T2 transformers at Dundas TS have recently been replaced in 2015. The Dundas TS T1/T2 27.6 kV MV switchgear has been identified by Hydro One at end of life requiring refurbishment.

7.16.2 Alternatives and Recommended Plan

Hydro One has identified MV 27.6 kV T1/T2 switchgear at Dundas TS at end of life requiring refurbishment. Keeping status quo not refurbishing this switchgear will increase the risk of failure due to

asset condition reducing supply reliability to the customers and would result in increased maintenance expenses.

The refurbishment switchgear is currently planned by Hydro One to be completed by 2021. This need is recommended to be further reviewed in the next regional planning cycle.

7.17 Newton TS End of Life Transformers and Switchgear

7.17.1 Description

Newton TS is a 115 kV/ 13.8 kV DESN station having transformers built in 1956 and supplies Alectra Utilities loads in the city of Hamilton. It has two station supply transformer of 67 MVA each supplying loads through its 13.8 kV switchyards. The customer load at the station is about 50 MW and is forecasted to stay at the same level in the foreseeable future. Hydro One in initial assessment has identified that both transformers and switchgear requiring refurbishment. The scope of refurbishment is subject to final asset condition assessment of Newton TS to be completed in 2017.

7.17.2 Alternatives and Recommended Plan

The following alternatives are considered to address Newton TS end of life asset issue:

- Maintain status quo: This alternative was considered and rejected as it does not address the risk of failure due to asset condition and would result in increased maintenance cost.
- Replacement of the assets: Replace existing EOL non-standard transformers with similarly sized units and refurbish switchgear to current standards.

The current plan is to refurbish Newton TS with new equipment built to current standards including two 75 MVA units replacing existing 67 MVA transformers and LV switchgear. This is the preferred alternative since it addresses the needs at Newton TS and maintaining station's operability and reliability of supply. This refurbishment work at Newton TS is planned by Hydro One to be completed by 2021. This need is recommended to be further reviewed in the next regional planning cycle.

7.18 Mid-Term End of Life LV Switchyard Refurbishment

7.18.1 Description

Hydro One has identified the LV switchyards reaching end-of-life by 2022 and need to be refurbished at the following stations:

1. Brantford TS
2. Lake TS
3. Stirton TS

7.18.2 Recommended Plan

The Working Group is recommending that these needs to be further reviewed in the next regional planning cycle.

7.19 Beach TS End of Life T7/T8 Autotransformers and T5/T6 DESN LV Switchgear

7.19.1 Description

Beach TS is a major switching and transformer station in East Hamilton. Station facilities include a 230 kV switchyard, three 230/115 kV autotransformers (T1/T7/T8), a 115 kV switchyard, a 230/13.8 kV DESN T5/T6 and a 115/13.8 kV DESN T3/T4.

Hydro One has determined that autotransformers T7 and T8 and the T5/T6 DESN LV Metalclad switchgear are expected to reach end of life by 2025 and will need to be replaced.

7.19.2 Recommended Plan

The Working Group is recommending that this need be further reviewed in the next regional planning cycle.

7.20 End of Life Cables in Hamilton Area: HL3/HL4, K1G/K2G, H5K/H6K

Underground cables in Hamilton area (listed below) are expected to be approaching end-of-life over the next 10 years or so.

- 115 kV H5K/H6K Cable (Beach TS to Kenilworth TS)
- 115 kV K1G/K2G Cable (Kenilworth TS to Gage TS)
- 115 kV HL3/HL4 Cable (Newton TS to Elgin TS)
- 115 kV HL3/HL4 Cable (Elgin TS to Stirton TS)

In light that replacement of the high voltage underground cables can be complicated, affect upstream transmission system and expensive requires alternative/s to be developed and assessed ahead of time. The WG has recommended further review of the cable replacement needs and development of a tentative plan in the next regional planning cycle.

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8. CONCLUSION AND NEXT STEPS

THIS REGIONAL INFRASTRUCTURE PLAN (RIP) REPORT CONCLUDES THE REGIONAL PLANNING PROCESS FOR THE BURLINGTON TO NANTICOKE REGION.

A list and summary of all the needs and/or plans in the near-term (2016-2020) and mid to long term (beyond 2020) is provided below in Table 8-1 and Table 8-2, respectively, along with their in-service date and estimated cost, where applicable. Where available, preliminary plans to address the mid- to long-term needs were also provided.

Table 8-1 Near-Term Needs/Plans in Burlington to Nanticoke Region

No.	Needs	Plans	Status	I/S Date	Cost ($M)
Projects Developed in Local Planning or an IRRP					
1	115 kV B7/B8 Transmission Line Capacity	Bronte TS: Load Transfer	Planning	2018	1-3
2	115 kV B12/B13 Transmission Line Capacity	Install Brant Switching Station	Planning	2019	12
3	Two New Feeders at Dundas TS	Dundas TS: Load Transfer	Planning	2019	8
4	Cumberland TS – Power Factor Correction	LDC is developing distribution option	Planning	TBD	-
5	Kenilworth TS – Power Factor Correction	LDC is developing distribution option	Planning	TBD	-
Projects Developed by HONI & the LDC(s), Reviewed by IESO					
6	Kenilworth TS EOL transformers & switchgear (1)	Reconfigure from 2 DESNs to single DESN	Planning	2018	19
7	Beach TS – EOL T3/T4 DESN Transformers (1)	Replace Beach TS T3/T4 DESN Transformers	Committed	2019	17
8	Gage TS – EOL transformers & switchgear	Gage TS: Reduce from 3 DESNs to 2 DESNs	Planning	2019	37
9	115 kV B7/B8 – EOL Line Section from Burlington TS to Nelson Jct. (1)	Refurbish the EOL B7/B8 line section	Planning	2020	2
Projects Developed by HONI & the LDC(s)					
10	115 kV B3/B4 – EOL Line Section from Horning Mountain Jct. to Glanford Jct. (1)	Refurbish the EOL B3/B4 line section conductor	Planning	2018	8
11	Horning TS EOL transformers & switchgears (1)	Replace EOL transformers & refurbish switchgears	Committed	2018	37

No.	Needs	Plans	Status	I/S Date	Cost ($M)
12	Bronte TS – EOL T5/T6 DESN [1]	Replace EOL transformers & refurbish switchgear	Committed	2019	34
13	Elgin TS – EOL transformers & switchgears	Replace transformers and reduce 2 DESNs to 1 DESN	Committed	2019	58
14	Mohawk TS (T1/T2) – Station Capacity and EOL T1/T2 Transformers	Mohawk TS Transformers Replacement	Committed	2019	14

[1] New needs identified by HONI

Table 8-2 Mid- and Long-Term Needs/Plans in Burlington to Nanticoke Region

No.	Needs/Plans	Planned I/S Date	Cost ($M)
1	Birmingham TS: 2 Metal Clad Switchgear Refurbishment [1]	2021	14
2	Dundas TS: T1/T2 switchyard refurbishment	2021	10
3	Newton TS: Station Refurbishment	2021	36
4	LV Switchgear Refurbishment at Brantford TS, Lake TS and Stirton TS	2022	46
5	Beach TS: Replace EOL T7/T8 Autotransformers and refurbish T5/T6 DESN switchgear	2025	60
6	EOL 115 kV Cables: - H5K/ H6K - K1G/ K2G - HL3/ HL4	TBD [2]	TBD [2]

[1] Preliminarily reviewed by HONI, LDC and the IESO
[2] To Be Decided

It is the recommendation of RIP Working Group:

a) Hydro One will continue to implement the committed and near-term projects for addressing the above needs as discussed in this report, while keeping the Working Group apprised of project status, and

b) The RIP recommends that an expedited Needs Assessment report should be developed to list these already identified needs in the mid and long term or any new needs to be followed by Scoping Assessment, led by the IESO for further assessment under the Burlington to Nanticoke regional planning Working Group.

9. REFERENCES

[1]. Independent Electricity System Operator, “Brant Area Integrated Regional Resource Plan”, 28 April 2015.
http://www.ieso.ca/Documents/Regional-Planning/Burlington_to_Nanticoke/2015-Brant-IRRP-Report.pdf

[2]. Bronte Sub region Integrated Regional Resource Planning (IRRP) Report
http://www.ieso.ca/Pages/Ontario%27s-Power-System/Regional-Planning/Burlington-to-Nanticoke/Bronte.aspx

[3]. Hydro One, “Needs Screening Report, Burlington to Nanticoke Region”, 23 May 2014.
http://www.hydroone.com/RegionalPlanning/Burlington/Documents/Needs%20Assessment%20Report%20-%20Burlington%20to%20Nanticoke%20Region.pdf

[4]. Hydro One, “Local Planning Report – Burlington to Nanticoke Region”, 28 October 2015.
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[5]. Hydro One, “OPA Letter – Brant Area Regional Planning”, 06 February 2014.
http://www.hydroone.com/RegionalPlanning/Burlington/Documents/OPA%20Letter%20-%20Burlington%20Nanticoke%20-%20Brant.pdf

[6]. Independent Electricity System Operator, “Review of Ontario Interties”, 14 October 2014.
http://www.ieso.ca/Documents/IntertieReport-20141014.pdf

APPENDIX A: TRANSMISSION LINES IN THE BURLINGTON TO NANTICOKE REGION

No.	Location	Circuit Designations	Voltage (kV)
1	Beach TS - CTS	H35D, H36D	230
2	Beach TS - Burlington TS	B18H, B20H	230
3	Beach TS - Middleport TS	M34H	230
4	Beach TS - Middleport TS - Beck #2 TS	Q24HM, Q29HM	230
5	Burlington TS - Cumberland TS	B40C, B41C	230
6	Burlington TS - Middleport TS	M27B, M28B	230
7	Burlington TS - Middleport TS - Beck #2 TS	Q23BM, Q25BM	230
8	Middleport TS - Beck #2 TS	Q30M	230
9	Middleport TS - Buchanan TS	M31W, M32W, M33W	230
10	Middleport TS - Detweiler TS	M20D, M21D	230
11	Middleport TS - Nanticoke TS	N5M, N6M	230
12	Middleport TS - Summerhaven SS	S39M	230
13	Middleport TS - Sandusk SS	K40M	230
14	Nanticoke TS - Jarvis TS	N21J, N22J	230
15	Summerhaven SS - Nanticoke TS	N37S	230
16	Sandusk SS - Nanticoke TS	N20K	230
17	Beach TS - Gage TS	B10, B11	115
18	Beach TS - Kenilworth TS	H5K, H6K	115
19	Beach TS - Newton TS	HL3, HL4	115
20	Beach TS - Winona TS	Q2AH	115
21	Beach TS - CSS	H9W	115
22	Burlington TS - Brant TS	B12, B13	115
23	Burlington TS - Bronte TS	B7, B8	115
24	Burlington TS - Cedar TS	B5G, B6G	115
25	Burlington TS - Newton TS	B3, B4	115
26	Caledonia TS - Norfolk TS	C9, C12	115
27	Kenilworth TS - Gage TS (Idle)	K1G, K2G	115

APPENDIX B: STATIONS IN THE BURLINGTON TO NANTICOKE REGION

No.	Station	Voltage (kV)	Supply Circuits
1	CTS	230	H35D, H36D
2	Beach TS	230	Beach TS 230 kV Bus [1]
3	Beach TS	115	Beach TS 115 kV Bus [2]
4	Birmingham TS	115	HL3, HL4
5	Bloomsburg DS	115	C9, C12
6	Brant TS	115	B12, B13
7	Brantford TS	230	M32W, M33W
8	Bronte TS	115	B7, B8
9	Burlington TS DESN	230	Q23BM, Q25BM
10	Caledonia TS	230	N5M, S39M
11	Cumberland TS	230	B40C, B41C
12	CTS	230	Q24HM, Q29HM
13	Dundas TS	115	B3, B4
14	Dundas TS #2	115	B12, B13
15	Elgin TS	115	HL3, HL4
16	Gage TS	115	B10, B11
17	Horning TS	230	M27B, M28B
18	CTS	230	N20K
19	Jarvis TS	230	N21J, N22J
20	Kenilworth TS	115	H5K, H6K
21	Lake TS	230	B18H, B20H
22	CTS	115	B3, B4
23	Mohawk TS	115	B3, B4
24	Nebo TS	230	Q24HM, Q29HM
25	Newton TS	115	Newton TS 115 kV Bus [3]
26	Norfolk TS	115	C9, C12
27	Powerline MTS	115	B12, B13
28	CTS	115	HL3, HL4
29	Stirton TS	115	HL3, HL4
30	CTS	230	N21J, N22J
31	Winona TS	115	Q2AH

[1] Beach TS 230 kV bus is supplied by five 230 kV B18H, B20H, Q24HM, Q29HM and M34H circuits

[2] Beach TS 115 kV bus is supplied by three 230 kV/ 115 kV autotransformers at Beach TS

[3] Newton TS 115 kV bus is supplied by four 115 kV B3, B4, B12 and B13 circuits

APPENDIX C: DISTRIBUTORS IN THE BURLINGTON TO NANTICOKE REGION

Distributor Name	Station Name	Connection Type
Energy + Inc.	Brant TS	Dx, Tx
	Brantford TS	Dx
Brantford Power Inc.	Brant TS	Tx
	Brantford TS	Tx
Brantford Power Inc. and Energy + Inc.	Powerline MTS	Tx
Burlington Hydro Inc.	Bronte TS	Tx
	Burlington TS	Tx
	Cumberland TS	Tx
Haldimand County Hydro Inc.	Caledonia TS	Dx, Tx
	Jarvis TS	Dx, Tx
Alectra Utilities Corporation	Beach TS	Tx
	Birmingham TS	Tx
	Dundas TS	Dx, Tx
	Dundas TS #2	Tx
	Elgin TS	Tx
	Gage TS	Tx
	Horning TS	Tx
	Kenilworth TS	Tx
	Lake TS	Dx, Tx
	Mohawk TS	Tx
	Nebo TS	Dx, Tx
	Newton TS	Tx
	Stirton TS	Tx
	Winona TS	Tx
Hydro One Networks Inc.	Brant TS	Tx
	Caledonia TS	Tx
	Dundas TS	Tx
	Dundas TS #2	Tx
	Jarvis TS	Tx
	Lake TS	Tx
	Nebo TS	Tx
	Norfolk TS	Dx, Tx
	Bloomsburg DS	Dx, Tx
Oakville Hydro Electricity Distribution Inc.	Bronte TS	Tx

APPENDIX D: AREA STATIONS NON COINCIDENT NET LOAD FORECAST (MW)

Sub-Region	Station	LTR	2015	2016	2017	2018	2019	2020	2021	2023	2025	2027	2029	2031	2033	2035
Brant 115 kV	Brant TS	101	59	61	63	67	68	69	70	72	74	76	79	81	84	86
	Powerline MTS	114	69	67	70	71	72	73	75	77	80	83	86	89	92	95
	Total	215	128	128	134	138	140	143	145	149	154	159	165	170	175	181
Brant 230 kV	Brantford TS	188	135	134	153	156	156	156	156	157	157	158	159	160	163	165
	Total	188	135	134	153	156	156	156	156	157	157	158	159	160	163	165
Bronte 115 kV	Bronte TS (T2)	75	59	60	62	63	64	65	66	67	68	68	68	68	69	70
	Bronte TS (T5/T6)	96	70	71	72	74	75	76	77	79	80	80	80	80	81	82
	Total	171	129	131	134	138	139	141	143	146	148	148	148	148	150	152
Bronte 230 kV	Burlington (DESN) TS	185	151	153	154	154	155	156	157	159	160	163	165	168	170	171
	Cumberland TS	174	123	122	122	122	123	124	124	126	127	129	131	133	135	136
	Total	359	273	275	276	277	278	279	281	284	288	291	296	301	304	307
Greater Hamilton 115 kV	Beach TS (T3/T4)	75	32	32	32	31	31	31	31	31	30	30	30	30	30	30
	Birmingham TS (T1/T2)	76	32	31	31	31	31	30	30	30	30	30	30	29	30	30
	Birmingham TS (T3/T4)	91	46	46	46	45	45	45	44	44	44	44	43	43	43	43
	Dundas TS	99	85	91	93	93	93	84	84	84	84	85	85	85	86	87
	Dundas TS #2	89	63	65	68	70	72	72	71	71	71	70	70	69	70	70
	Elgin TS (T1/T2)	80	63	62	62	62	61	59	58	58	58	57	57	57	57	57
	Elgin TS (T3/T4)	42	22	22	22	21	21	21	21	21	21	21	21	20	21	21
	Gage TS (T3/T4)	60	22	22	22	21	21	21	21	21	21	21	21	20	21	21
	Gage TS (T5/T6)	57	11	11	11	11	11	11	11	10	10	10	10	10	10	10
	Gage TS (T8/T9)	123	15	15	15	15	15	15	15	15	14	14	14	14	14	14
	Kenilworth TS (T1/T4)	36	29	28	28	28	28	28	28	27	27	27	27	27	27	27
	Kenilworth TS (T2/T3)	64	31	31	31	31	30	30	30	30	30	30	29	29	29	29
	Mohawk TS	80	84	83	83	83	83	82	82	82	81	81	80	79	80	80
	Newton TS	78	47	47	48	47	47	47	47	46	46	46	45	45	45	46
	Stirton TS	112	50	50	50	49	49	49	49	48	48	48	47	47	47	48
	Winona TS	89	46	48	51	51	50	50	50	49	49	49	49	48	48	49
	Total CTS		59	59	60	60	61	61	61	61	61	61	61	61	61	61
	Total		736	745	752	750	749	735	732	729	726	723	719	715	719	723
Greater Hamilton 230 kV	Beach TS (T5/T6)	91	41	44	43	43	47	47	47	46	46	46	46	45	45	46
	Horning TS	102	71	73	76	76	76	75	75	75	74	74	73	73	73	73
	Lake TS (T1/T2)	94	57	57	56	56	55	55	55	54	54	54	53	53	53	54
	Lake TS (T3/T4)	113	55	54	54	55	55	54	54	54	54	53	53	53	53	53
	Nebo TS (T1/T2)	178	119	113	116	119	123	123	124	127	129	131	133	136	140	144
	Nebo TS (T3/T4)	51	50	49	50	51	51	50	50	50	50	49	49	49	49	49
	Total CTS		265	265	265	265	244	244	244	244	244	244	244	244	244	244
	Total		658	655	661	665	651	650	650	650	651	652	652	652	658	663
Caledonia Norfolk 115 kV	Norfolk TS	97	59	56	55	55	54	54	54	53	53	53	52	52	52	52
	Bloomsburg DS	56	42	30	29	27	27	27	27	27	27	27	27	27	27	27
	Total	153	101	87	85	82	82	81	81	80	80	80	79	78	79	80
Caledonia Norfolk 230 kV	Caledonia TS	99	45	41	42	42	42	42	43	44	45	45	46	47	48	50
	Jarvis TS	99	66	62	61	61	61	61	61	62	62	63	63	63	64	66
	Total CTS		123	123	123	123	123	123	123	123	123	123	123	123	123	123
	Total		233	226	226	226	226	226	227	228	230	231	232	233	235	238
Regional Total			2394	2379	2419	2432	2421	2411	2415	2425	2434	2442	2450	2458	2483	2509

APPENDIX E: LIST OF ACRONYMS

Acronym	Description
A	Ampere
BES	Bulk Electric System
BPS	Bulk Power System
CDM	Conservation and Demand Management
CIA	Customer Impact Assessment
CGS	Customer Generating Station
CSS	Customer Switching Station
CTS	Customer Transformer Station
DCF	Discounted Cash Flow
DESN	Dual Element Spot Network
DG	Distributed Generation
DSC	Distribution System Code
GATR	Guelph Area Transmission Reinforcement
GS	Generating Station
GTA	Greater Toronto Area
HV	High Voltage
IESO	Independent Electricity System Operator
IRRP	Integrated Regional Resource Plan
kV	Kilovolt
LDC	Local Distribution Company
LP	Local Plan
LTE	Long Term Emergency
LTR	Limited Time Rating
LV	Low Voltage
MTS	Municipal Transformer Station
MW	Megawatt
MVA	Mega Volt-Ampere
MVAR	Mega Volt-Ampere Reactive
NA	Needs Assessment
NERC	North American Electric Reliability Corporation
NGS	Nuclear Generating Station
NPCC	Northeast Power Coordinating Council Inc.
NUG	Non-Utility Generator
OEB	Ontario Energy Board
OPA	Ontario Power Authority
ORTAC	Ontario Resource and Transmission Assessment Criteria
PF	Power Factor
PPWG	Planning Process Working Group
RIP	Regional Infrastructure Plan
ROW	Right-of-Way
SA	Scoping Assessment
SIA	System Impact Assessment
SPS	Special Protection Scheme
SS	Switching Station
TS	Transformer Station
TSC	Transmission System Code
UFLS	Under Frequency Load Shedding
ULTC	Under Load Tap Changer
UVLS	Under Voltage Load Rejection Scheme

APPENDIX 8 – IRM CHECK LIST

2020 IRM Checklist

Oakville Hydro

EB-2019-0059

Filing Requirement Page # Reference | **Date: August 12, 2019**

		Evidence Reference, Notes
IRM REQUIREMENTS		
3.1.2 Components of the Application Filing , Pg. 3-4		
Pg. 3	Manager's summary documenting and explain all rate adjustments requested	Section 1, page 1, line 14-26
3	Contact info - primary contact may be a person within the applicant's organization other than the primary license contact	Section 2, page 2, line 1 to 11
4	Completed Rate Generator Model and supplementary work forms, Excel and PDF	Appendix 2
4	Current tariff sheet, PDF	Appendix 3
4	Supporting documentation (e.g. relevant past decisions, RRWF etc.)	Referenced where applicable
4	Statement as to who will be affected by the application, specific customer groups affected by particular request	Section 6, page 3, line 9
4	Applicant's internet address	Paragraph 2, page 2, line 6
4	Statement confirming accuracy of billing determinants pre-populated in model	Section 4, page 3, line 3 to 4
4	Text searchable PDF format for all documents	Confirmed
3.1.3 Applications and Electronic Models, Pg. 5-6		
5	Populated GA Analysis Workform	Appendix 4, Excel file
5	If required, for distributors seeking revenue to cost ratio adjustments due to previous OEB decision, the Revenue to Cost Ratio Adjustment Workform must be filed	Oakville Hydro is not seeking approval for cost ratio adjustments
5	For an incremental or pre-approved advanced capital module (ICM/ACM) cost recovery and associated rate rider(s), a distributor must file the Capital Module Applicable to ACM and ICM	Apendix 5, Excel file
5	A distributor seeking to dispose of lost revenue amounts from conservation and demand management activities, during an IRM term, must file the Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Workform	Excel file
5 & 6	Account 1595 Analysis Workform - for distributors who meet the requirements for disposition of residual balances in 1595 sub-accounts	Excel file
Addendum, Page 15	All distributors must file the responses to the questions in Appendix A of the GA Analysis Workform.	Appendix 4
3.2.2 Revenue to Cost Ratio Adjustments		
8	Completed revenue-to-cost ratio adjustment workform to adjust the revenue-to-cost ratio if previously approved by the OEB	Oakville Hydro is not seeking approval for adjustments to revenue to cost ratios
3.2.3 Rate Design for Residential Electricity Customers		
Residential Rate Design - Exceptions and Mitigation (applicable only to distributors that have not completed the rate design transition)		
9	Extension of OEB-approved transition period, if necessary	Section 9, page 4, line 8 to 13 Oakville Hydro has completed the transition to fully fixed rates for residential customers
9	Alternative/additional strategy in the event that an additional transition year is insufficient, or that no extension is necessary, however substantiated with reasons	
9	Calculation of the combined impact of the fixed rate increase and any other changes in the cost of distribution service for those residential RPP customers who are at the 10th percentile of overall consumption	
9	Description of the method used to derive the 10th consumption percentile. The description should include a discussion regarding the nature of the data that was used (e.g. was the source data for all residential customers or a representative sample of residential customers).	
9	If the total bill impact of the elements proposed in the application is 10% or greater for RPP customers consuming at the 10th percentile, a distributor must file a plan to mitigate the impact for the whole residential class or indicate why such a plan is not required	
10	Mitigation plan if total bill increases for any customer class exceed 10%	Oakville Hydro is not proposing total bill increases that exceed 10% for any rate class.
3.2.4 Electricity Distribution Retail Transmission Service Rates	No action required at filing - model completed with most recent uniform transmission rates (UTRs) approved by the OEB	
3.2.5 Review and Disposition of Group 1 DVA Balances, Pg. 10-16		
10	Justification if any account balance in excess of the threshold should not be disposed	Oakville Hydro is not seeking approval for the disposition of Group 1 DVA balances
11	Completed tab 3 - continuity schedule in Rate Generator Model	Appendix 2, Excel file
11	Explanation of variance between amounts proposed for disposition and amounts reported in RRR for each account	Section 11.2, page 5, line 12 to 17
11	Statement as to whether any adjustments have been made to balances previously approved by the OEB on a final basis If yes, explanations provided for the nature and amounts of the adjustments and supporting documentation under a section titled "Adjustments to Deferral and Variance Accounts	Section 11.3, page 6, line 20 to 23
12	GA rate riders calculated on an energy basis (kWh)	Oakville Hydro is not seeking approval for the disposition of Group 1 DVA balances
General	Propose rate riders for recovery or refund of balances that are proposed for disposition. The default disposition period is one year; if the applicant is proposing an alternative recovery period must provide explanation.	
3.2.5.1 Wholesale Market Participants		
12	Establish separate rate riders to recover balances in the RSVA's from Market Participants who must not be allocated the RSVA balances related to charges for which the WMP's settle directly with the IESO.	Oakville Hydro is not seeking approval for the disposition of Group 1 DVA balances
3.2.5.2 Global Adjustment		
13	Establishment of a separate rate rider included in the delivery component of the bill that would apply prospectively to Non-RPP Class B customers when clearing balances from the GA Variance Account	Oakville Hydro is not seeking approval for the disposition of Group 1 DVA balances
14 & Addendum, Pages 16 - 17	For each year that the accumulated balance of Account 1589 has not been disposed, regardless of whether or not distrbutors are seeking disposition of Group 1 accounts in the current proceeding, all distributors are required to file the GA Analysis Workform in live Excel format and responses to questions in Appendix A of the GA Analysis Workform Instructions; explain discrepancies. Unexplained discrepancies calculated separately for each calendar year	Appendix 4, Excel file
14	Description of settlement process with IESO or host distributor, specify GA rate used for each rate class, itemize process for providing estimates and describe true-up process, details of method for estimating RPP and non-RPP consumption, treatment of embedded generation/distribution, distributor's internal control tests in validating estimated and actual consumption figures used in RPP settlement process and subsequent true-up adjustments	Section 12.3, page 5, line 4 to 12
15	If distributor uses the actual GA rate to bill non-RPP Class B customers, a proposal must be made to exclude these customer classes from the allocations of the balance of Account 1589 and the calculation of the resulting rate riders	Not applicable
15	Description of financial accounting practices related to recording transaction in 1588 and 1589	Appendix 4, Responses to GA Analysis Workform Questions
14 & 15	Disclosure of nature, timing, and dollar impact of subsequent adjustments recorded after recording period that adjust the initial transactions from preliminary estimates to actual figures based on consumption data - complete GA Analysis Workform for each applicable fiscal year subsequent to the most recent year in which Accounts 1588 and 1589 were approved for disposition on a final basis by the OEB	Appendix 4, Excel file
15	If a distributor uses the actual GA price to bill non-RPP Class B customers for an entire rate class, propose made to exclude these customer classes from the allocation of the balance of account 1589 RSVA GA and the calculation of the resulting rate riders - these rate classes are not to be charged/refunded the GA rate rider as they did not contribute to the accumulation of the balance of account 1589 RSVA GA	Not applicable
3.2.5.3 Commodity Accounts 1588 and 1589		
15	RPP Settlement True-Up - distributors to follow guidance in May 23, 2017 letter pertaining to the period that is being requested for disposition for Accounts 1588 and 1589	Oakville Hydro is not seeking approval for the disposition of Group 1 DVA balances
15	Certification by the CEO, CFO or equivalent that distributor has robust processes and internal controls in place for the preparation, review, verification and oversight of account balances being proposed for disposition	Section 2, page 2, line 22
Addendum, Pages 12 - 13	Status update on implementation of new accounting guidance (related to Accounts 1588 and 1589 - Feb 21, 2019), a review of historical balances, results of the review, and any adjustments made to account balances; for any adjustments made - include the reason, how it was quantified and the journal entried to adjust the balances	Section 12.5, page 6, line 19 - 26
3.2.5.4 Capacity Based Recovery (CBR)		
16	Proposed disposition of Account 1580 sub-account CBR Class B in accordance with the OEB's CBR Accounting Guidance. - embedded distributors who are not charged CBR (therefore no balance in sub-account CBR Class B) must indicate this is the case for them - In the DVA continuity schedule, applicants must indicate whether they serve any Class A customers during the period where Account 1580 CBR Class B sub-account balance accumulated. - Account 1580 sub-account CBR Class A is not to be disposed through rates proceedings but rather follow the OEB's accounting guidance. - The DVA continuity schedule will allocate the portion of Account 1580 sub-account CBR Class B allocated to customers who transitioned between Class A and Class B based on consumption levels	Oakville Hydro is not seeking approval for the disposition of Group 1 DVA balances
3.2.6 Lost Revenue Adjustment Mechanism Variance Account		
	LRAMVA - disposition of balance. Distributors must provide version 4 of LRAMVA Work Form in a working Excel file when making LRAMVA requests for remaining amounts related to CFF activity. An application for lost revenues should include: Participation and Cost reports in Excel format, made available by the IESO.	Excel file
	An application for lost revenues should also provide the following:	
	- statement identifying the year(s) of new lost revenues and prior year savings persistence claimed in the LRAMVA disposition	Section 13.1, page 8, line 2 to 7
	Streetlight savings - kWh based on streetlight profiles	Section 13.2, page 9, lines 7 to 9
	statement confirming LRAMVA based on verified savings results supported by the distributors final CDM Report and Persistence Savings Report (both filed in Excel format)	Section 13.1, page 8, line 12 to 16 Savings based on Participation and Cost Report
	a statement indicating use of most recent input assumptions when calculating lost revenue	Section 13.1, page 8, line 17
	summary table with principal and carrying charges by rate class and resulting rate riders	Section 13.3, page 9, Table 5
	statement providing the disposition period; rationale provided for disposing the balance in the LRAMVA if one or more classes do not generate significant rate riders	Section 13.3, page 9, lines 16 to 17
	statement confirming LRAMVA reference amounts, rationale for the distributors circumstances if LRAMVA threshold not used	Oakville Hydro is using the LRAMVA threshold, Excel file
	rationale confirming how rate class allocations for actual CDM savings were determined by class and program (Tab 3-A of LRAMVA Work Form)	Excel file, LRAMVA Work Form, Tab 3A
	statement confirming whether additional documentation was provided in support of projects that were not included in distributors final CDM Annual Report (Tab 8 of LRAMVA Work Form as applicable)	Section 13.2, page 8. lines 23 to 27
	for a distributor's streetlighting project(s) which may have been completed in collaboration with local municipalities, the following must be provided:	
	Explanation of the methodology to calculate streetlighting savings;	
	Confirmation whether the streetlighting savings were calculated in accordance with OEB-approved load profiles for streetlighting projects;	Section 13.2, page 9, lines 7 to 9

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Addendum, Pages 20 - 22	Confirmation whether the streetlighting project(s) received funding from the IESO and the appropriate net-to-gross assumption used to calculate streetlighting savings	Section 13.2, page 8, lines 25 to 27
	For the recovery of lost revenues related to demand savings from street light upgrades, distributors should provide the following information:	
	Explanation of the forecast demand savings from street lights, including assumptions built into the load forecast from the last CoS application	Section 13.2, page 8, lines 19 to 20 Section 13.2, page 8, lines 23 to 27 LRAMVA Work Form, Tab 8
	Confirmation that the street light upgrades represent incremental savings attributable to participation in the IESO program, and that any savings not attributable to the IESO program have been removed (for example, other upgrades under normal asset management plans)	Section 13.2, page 9, lines 4 to 6
	Confirmation that the distributor has received reports from the participating municipality that validate the number and type of bulbs replaced or retrofitted through the IESO program	Section 13.2, page 8, 28 to 29
	Confirmation that the associated energy savings from the applicable IESO program have been removed from the LRAMVA workform so as not to double count savings (for example, if requesting lost revenue recovery for the demand savings from a street light upgrade program, the associated energy savings from the Retrofit program have been subtracted from the Retrofit total)	Section 13.2, page 9, lines 4 to 6
	A table, in live excel format, that shows the monthly breakdown of billed demand over the period of the street light upgrade project, and the detailed calculations of the change in billed demand due to the street light upgrade project (including data on number of bulbs, type of bulb replaced or retrofitted, average demand per bulb).	Excel file, LRAMVA Work Form, Tab 8
	For the recovery of lost revenues related to demand savings from other programs that are not included in the monthly Participation and Cost Reports of the IESO (for example Combined Heat and Power projects), distributors should provide the following information:	Oakville Hydro is not requesting recovery for lost revenues related to other programs that are not included in the monthly Participation and Cost Reports
	The third party evaluation report that describes the methodology to calculate the demand savings achieved for the program year. In particular, if the proposed methodology is different than the evaluation approaches used by the IESO, an explanation must be provided explaining why the proposed approach is more appropriate	
	Rationale for net-to-gross assumptions used	
	Breakdown of billed demand and detailed level calculations in live excel format	
3.2.7 Tax Changes		
19 & 20	If applicable, tabs 8 and 9 of Rate Generator Model complete	Appendix 2, excel file
20	If one or more customer classes does not generate a rate rider to the fourth decimal place, a proposal that the entire 50/50 sharing amount will be transferred to Account 1595 for disposition at a future date	Section 14, page 10, lines 1 to 2
3.2.8 Z-Factor Claims, Pg. 20-21		
20	Evidence that costs incurred meet criteria of need, materiality and prudence - see 3rd Generation IRM Report	Not applicable
20 & 21	In addition distributor must: - Notify OEB by letter of all Z-Factor events within 6 months of event (Confirm that letter is on file) - Apply to OEB for any cost recovery of amounts in OEB-approved deferral account claimed under Z-Factor treatment - Demonstrate that distributor could not have been able to plan or budget for the event and harm caused is genuinely incremental - Demonstrate that costs incurred within a 12-month period and are incremental to those already being recovered in rates as part of ongoing business exposure risk	
3.2.8.2 Z-Factor Accounting Treatment		
21	Eligible Z-factor cost amounts recorded in Account 1572, Extraordinary Event Costs, of the OEB's USoA contained in the Accounting Procedures Handbook (APH) for electricity distributors.	Not applicable
21	Carrying charges are calculated using simple interest applied to the monthly opening balances in the account and recorded in a separate Sub-Account of this account	
3.2.8.3 Recovery of Z-Factor Costs		
21	Description of manner in which distributor intends to allocate incremental costs, including rationale for approach and merits of alternative allocation methods	Not applicable
21	Specification of whether rate rider(s) will apply on fixed or variable basis, or combination; length of disposition period and rational for proposal	
21	Residential rider on fixed basis	
21	Detailed calculation of incremental revenue requirement and resulting rate rider(s)	
3.3.1 Advanced Capital Module, Pg. 22-23		
22	Evidence of passing "Means Test"	Not applicable
22	Information on relevant project or projects updated cost projections, confirmation that the project or projects are on schedule to be completed as planned and an updated ACM/ICM module in Excel format	Not applicable
22/23	If proposed recovery differs significantly from pre-approved amount, a detailed explanation is required as to why	Not applicable
23	If updated cost projects are 30% greater than pre-approved amount, distributor must treat project as new ICM, re-filed business case and other relevant material required	Not applicable
3.3.2 Incremental Capital Module, Pg. 23-29		
3.3.2.1 ICM Filing Requirements		
	The following should be provided when filing for incremental capital:	
25	An analysis demonstrating that the materiality threshold test has been met and that the amounts will have a significant influence on the operation of the distributor	Section 15.4, page 10, lines 19 to 23
25	Justification that the amounts to be incurred will be prudent - amounts represents the most cost-effective option (but not necessarily the least initial cost) for ratepayers	Section 15.5, pages 13 to 15
25	Justification that amounts being sought are directly related to the cause, which must be clearly outside of the base upon which current rates were derived	Section 15.5, pages 13 to 15
25	Evidence that the incremental revenue requested will not be recovered through other means (e.g., it is not, in full or in part, included in base rates or being funded by the expansion of service to include new customers and other load growth)	Section 15.5, pages 13 to 15
25	Details by project for the proposed capital spending plan for the expected in-service year	Section 15.3, page 11, Table 6
25	Description of the proposed capital projects and expected in-service dates	Section 15.5, pages 13 to 15
25	Calculation of the revenue requirement (i.e. the cost of capital, depreciation, and PILs) associated with each proposed incremental capital project	Section 15.7, page 15 Table 9
25	Calculation of each incremental project's revenue requirements that will be offset by revenue generated through other means (e.g. customer contributions in aid of construction)	Section 15.5, page 15, lines 20 to 24
25	Description of the actions the distributor would take in the event that the OEB does not approve the application	Section 15.8, page 12
25	Calculation of a rate rider to recover the incremental revenue from each applicable customer class. The distributor must identify and provide a rationale for its proposed rider design, whether variable, fixed or a combination of fixed and variable riders. As discussed at section 3.2.3, any new rate rider for the residential class must be applied on a fixed basis	Section 15.9, page 16, lilnes 1 to 17 and Table 10
3.3.5 Off-Ramps		
30	A distributor whose earnings are in excess of the dead band (i.e. 300 basis points) but nevertheless applies for an increase to its base rates - an explanation to substantiate its reasons for doing so required	Not applicable
Appendix A		
Appendix A	Confirm disposition of residual balances for vintage Account 1595 have only been done once - distributors expected to seek disposition of the balance a year after a rate rider's sunset date has expired. No further dispositions of these accounts are generally expected unless justified by the distributor	Not applicable
Appendix A & Addendum, Page 22	Distributors who meet the requirements for disposition of residual balances of Account 1595 sub-accounts, must complete the 1595 Analysis Workform. Account 1595 sub-accounts are eligible for disposition when one full year has elapsed since the associated rate riders' sunset dates have expired and the residual balances have been externally audited.	Not applicable
Appendix A	Material residual balances will require further analysis, consisting of separating the components of the residual balances by each applicable rate rider and by customer rate class. Distributors are expected to provide detailed explanations for any significant residual balances attributable to specific rate riders for each customer rate class. Explanations must include for example, volume differences between forecast volumes (used to calculate the rate riders) as compared to actual volumes at which the rate riders were billed.	Not applicable