



**Ontario Energy Board
Commission de l'énergie de l'Ontario**

DECISION AND RATE ORDER

EB-2015-0103

**THUNDER BAY HYDRO ELECTRICITY
DISTRIBUTION INC.**

Application for an order approving just and reasonable rates and other charges for electricity distribution to be effective May 1, 2016.

By Delegation, Before: Lynne Anderson

March 17, 2016

1 INTRODUCTION AND SUMMARY

Thunder Bay Hydro Electricity Distribution Inc. (Thunder Bay Hydro) serves about 50,000 mostly residential and commercial electricity customers in the City of Thunder Bay and Fort William First Nation Reserve. As a licenced and rate-regulated distributor in Ontario, the company must receive the Ontario Energy Board's (OEB) approval for the rates it charges to distribute electricity to its customers.

Thunder Bay Hydro filed an application with the OEB on September 29, 2015, to seek approval for changes to its distribution rates to be effective May 1, 2016. The OEB has established three different rate-setting methods for distributors. Thunder Bay Hydro selected the Price Cap Incentive rate-setting (Price Cap IR) plan option to adjust its distribution rates. The Price Cap IR method has a five year term. In the first year, rates are set through a cost of service rebasing application. Thunder Bay Hydro last appeared before the OEB with a cost of service application for 2013 in the EB-2012-0167 proceeding. In the other four years, there is a mechanistic adjustment to rates based on inflation and the OEB's assessment of a distributor's efficiency.

This is the OEB's Decision with respect to Thunder Bay Hydro's application. The following issues are addressed in this Decision and Rate Order.

- Price Cap Incentive Rate-setting
- Regulatory Charges
- Retail Transmission Service Rates
- Review and Disposition of Group 1 Deferral and Variance Accounts
- Review and Disposition of Lost Revenue Adjustment Mechanism Variance Account Balance
- Residential Rate Design
- Implementation and Order

In accordance with the OEB-approved parameters for inflation and productivity for 2016, Thunder Bay Hydro applied for a rate increase of 1.80%. The 1.80% applies to distribution rates (fixed and variable charges) uniformly across all customer classes; it does not apply to the rates and charges listed in Schedule B.

Thunder Bay Hydro also applied to change the composition of its distribution service rates. Currently, residential distribution rates include a fixed monthly charge and a variable usage charge. However, the OEB issued a new policy to change residential rates to a fully fixed rate structure, transitioning over a four-year period beginning in 2016.¹ Accordingly, the fixed monthly charge for 2016 has been adjusted upward in this

¹ Board Policy: A New Distribution Rate Design for Residential Electricity Customers, EB-2012-0410, April 2, 2015

Decision by more than the mechanistic adjustment alone and the variable-usage rate is commensurately lower. The amount of revenue the distributor is expected to collect from residential customers will not be affected, only the proportion of revenue collected through variable and fixed charges.

The bill impacts arising from this Decision for Thunder Bay Hydro result in a monthly increase of \$0.01 for a residential customer consuming 800 kWh.

The OEB approves the adjustments to Thunder Bay Hydro's application as calculated through this proceeding.

2 THE PROCESS

The OEB follows a standard, streamlined process for incentive rate-setting (IR) applications under a Price Cap IR plan.

Initially, the OEB prepares a rate model that includes information from past proceedings and annual reporting requirements. A distributor then reviews and updates the model to include with its application.

In this case, Thunder Bay Hydro provided written evidence and a completed rate model to support its application on September 29, 2015. Questions were asked and answers were provided by Thunder Bay Hydro through emails and phone calls. Based on this information, a decision was drafted and provided to Thunder Bay Hydro on January 28, 2016. Thunder Bay Hydro was given the opportunity to provide its comments on the draft for consideration prior to finalizing the Decision.

3 ORGANIZATION OF THE DECISION

The OEB has organized this Decision into sections, reflecting the issues that the OEB has considered in making its findings.² Each section covers the OEB's reasons for approving or denying the proposals included in the application and affecting 2016 rates. The last section addresses the steps to implement the final rates that flow from this Decision.

4 PRICE CAP INCENTIVE RATE-SETTING

The Price Cap IR adjustment follows an OEB-approved formula that includes components for inflation and the OEB's expectations of efficiency and productivity

² See list of issues in the Introduction, p.1

gains.³ The components in the formula are also approved by the OEB annually.

The formula is an *inflation minus X-factor* rate adjustment, which is intended to incent innovation and efficiency. Based on its established formula,⁴ the OEB has set the inflation factor for 2016 rates at 2.1%.

The X-factors for individual distributors have two parts: a productivity element based on historical analysis of industry cost performance and a stretch factor that represents a distributor's efficiency relative to its expected costs. Subtracting the X-factor from inflation ensures that rates decline in real, constant-dollar terms, providing distributors an incentive to improve efficiency or else face the prospect of declining net income.

Based on industry conditions over the historical study period, the productivity factor has been set at zero percent. A stretch factor is assigned based on the distributor's total cost performance as benchmarked relative to other distributors in Ontario. For Price Cap IR applications, a range of stretch factors has been set from 0.0% to 0.6%.⁵ The most efficient distributor, based on the cost evaluation ranking, would be assigned the lowest stretch factor of 0.0%. Higher stretch factors are applied to distributors whose cost performance falls below that of comparable distributors to encourage them to pursue greater efficiencies.

Findings

In this case, the OEB assigned Thunder Bay Hydro a stretch factor of 0.30% based on the updated benchmarking study for use for rates effective in 2016.⁶ As a result, the net price cap index adjustment for Thunder Bay Hydro is 1.80% (i.e. 2.1% - (0% + 0.30%)).

The 1.80% adjustment applies to distribution rates (fixed and variable charges) uniformly across all customer classes; it does not apply to the rates and charges listed in Schedule B.

5 REGULATORY CHARGES

There are a number of charges levied to consumers to cover the costs associated with various programs and wholesale market services.

³ Report on Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for Ontario's Electricity Distributors (December 4, 2013)

⁴ As outlined in the Report cited at footnote 3 above.

⁵ Report to the Ontario Energy Board – "Empirical Research in Support of Incentive Rate-Setting: 2014 Benchmarking Update." Pacific Economics Group LLC. July 2015.

⁶ As outlined in the Report cited at footnote 5 above.

The Rural or Remote Electricity Rate Protection (RRRP) program is designed to provide financial assistance to eligible customers located in rural or remote areas where the costs of providing electricity service to these customers greatly exceeds the costs of providing electricity to customers located elsewhere in the province of Ontario. The RRRP program cost is recovered from all electricity customers in the province through a charge that is reviewed annually and approved by the OEB.

Wholesale market service (WMS) charges recover the cost of the services provided by the Independent Electricity System Operator (IESO) to operate the electricity system and administer the wholesale market. These charges may include costs associated with: operating reserve, system congestion and imports, and losses on the IESO-controlled grid. Individual electricity distributors recover the WMS charges from their customers through the WMS rate.

The Ontario Electricity Support Program (OESP) is a new regulatory charge initiated in 2016. This program delivers on-bill rate assistance to low income electricity customers. All Ontario customers contribute to the OESP through the OESP charge.

These regulatory charges are established annually by the OEB through a separate order.

Findings

The OEB has determined⁷ that the RRRP charge for 2016 shall be \$0.0013 per kWh; the WMS rate shall be \$0.0036 per kWh; and the OESP charge shall be \$0.0011 per kWh. These changes have been in effect since January 1, 2016 for all distributors as a result of the generic order that was part of the OEB's separate decision on these matters. The Tariff of Rates and Charges flowing from this Decision and Rate Order has been updated to reflect these new regulatory charges, as well as the OESP credits to be provided to enrolled low income customers.

6 RETAIL TRANSMISSION SERVICE RATES

Electricity distributors use Retail Transmission Service Rates (RTSRs) to pass along the cost of transmission service to their distribution customers. The RTSRs are adjusted annually to reflect the application of the current Uniform Transmission Rates (UTR) to historical transmission deliveries and the revenues generated under existing RTSRs. The UTRs are established annually by a separate OEB order. Distributors may apply to the OEB annually to approve the proposed UTRs and RTSRs they will charge their customers.

⁷ Decision and Rate Order, EB-2015-0294

Findings

The OEB has adjusted the UTRs effective January 1, 2016,⁸ as shown in the following table:

2016 Uniform Transmission Rates

Network Service Rate	\$3.66 per kW
<u>Connection Service Rates</u>	
Line Connection Service Rate	\$0.87 per kW
Transformation Connection Service Rate	\$2.02 per kW

The OEB finds that these 2016 UTRs are to be incorporated into the rate model to adjust the RTSRs that Thunder Bay Hydro will charge its customers accordingly.

7 REVIEW AND DISPOSITION OF GROUP 1 DEFERRAL AND VARIANCE ACCOUNT BALANCES

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

The OEB's policy on deferral and variance accounts⁹ provides that, during the IR plan term, the distributor's Group 1 account balances will be reviewed and disposed if the pre-set disposition threshold of \$0.001 per kWh, whether in the form of a debit or credit, is exceeded. It is the distributor's responsibility to justify why any account balance in excess of the threshold should not be disposed. If the balances are below this threshold, the distributor may propose to dispose of balances.

Thunder Bay Hydro's 2014 actual year-end total balance for Group 1 accounts including interest projected to April 30, 2016 is a debit of \$662,730. This amount results in a total debit claim of \$0.0007 per kWh, which does not exceed the preset disposition threshold. Consistent with section 3.2.5 of the *2016 Filing Requirements* and a letter issued by the OEB on July 25, 2014, Thunder Bay Hydro has requested to dispose of the balances in

⁸ 2016 Uniform Electricity Transmission Rate Order, EB-2015-0311

⁹ Report of the Board on Electricity Distributors' Deferral and Variance Account Review Initiative (July 31, 2009)

the accounts despite the total net claim not meeting the threshold. Thunder Bay Hydro proposes to dispose of this debit amount over a one-year period.

Findings

The balances proposed for disposition are the same as the amounts reported as part of the OEB's *Reporting and Record-Keeping Requirements*. The OEB approves the disposition of a debit balance of \$662,730 as of December 31, 2014, including interest projected to April 30, 2016 for Group 1 accounts. These balances are to be disposed through rate riders over a one-year period from May 1, 2016 to April 30, 2017.

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

Group 1 Deferral and Variance Account Balances

Account Name	Account Number	Principal Balance (\$) A	Interest Balance (\$) B	Total Claim (\$) C=A+B
Smart Meter Entity Variance Charge	1551	749	56	805
RSVA - Wholesale Market Service Charge	1580	(187,524)	(814)	(188,337)
RSVA - Retail Transmission Network Charge	1584	(239,969)	(5,506)	(245,475)
RSVA - Retail Transmission Connection Charge	1586	(429,963)	(9,957)	(439,920)
RSVA - Power	1588	(187,964)	(29,541)	(217,505)
RSVA - Global Adjustment	1589	1,591,357	41,420	1,632,777
Disposition and Recovery of Regulatory Balances (2011)	1595	(34)	643	609
Disposition and Recovery of Regulatory Balances	1595	192,604	(186,369)	6,235

(2012)				
Disposition and Recovery of Regulatory Balances (2013)	1595	345,701	(232,162)	113,540
Total Group 1 Excluding Global Adjustment - Account 1589		(506,390)	(463,657)	(970,047)
Total Group 1		1,084,967	(422,238)	662,730

The balance of each Group 1 account approved for disposition shall be transferred to the applicable principal and interest carrying charge sub-accounts of Account 1595. Such transfer shall be pursuant to the requirements specified in Article 220, Account Descriptions, of the *Accounting Procedures Handbook for Electricity Distributors*. The date of the transfer must be the same as the effective date for the associated rates, which is, generally, the start of the rate year. Thunder Bay Hydro should ensure these adjustments are included in the reporting period ending June 30, 2016 (Quarter 2).

8 REVIEW AND DISPOSITION OF THE LOST REVENUE ADJUSTMENT MECHANISM VARIANCE ACCOUNT BALANCE

As part of the Ministry of Energy's conservation-first strategy, the OEB requires distributors to engage in and deliver conservation and demand management activities in an effort to reduce total energy consumption and reduce peak demand on the provincial electricity system. The OEB policy¹⁰ established the Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) to capture the revenue implications for the distributor from the reduction in actual demand, as compared with the last OEB-approved load forecast, resulting from conservation and demand management activities. These differences are recorded for each of a distributor's customer classes.

A distributor may apply for the disposition of the balance in the LRAMVA on an annual basis, as part of its IRM rate application, if the balance is deemed significant by the distributor.

Thunder Bay Hydro requests disposition of its LRAMVA balance of a debit of \$58,324 as of December 31, 2014 consisting of lost revenues in 2012, 2013 and 2014 from Thunder Bay Hydro's 2011 to 2014 conservation programs.

¹⁰ Guidelines for Electricity Distributor Conservation and Demand Management (April 26, 2012)

The draft decision, which included a finding on the LRAMVA based on the above information, was sent to Thunder Bay Hydro on January 28, 2016. Its letter of comment was filed on February 9, 2016. However, on March 3, 2016, the OEB issued a letter announcing that it is holding a meeting on March 31, 2016 to gather input on the approach to recording the revenue impact of demand (kW) savings in the LRAMVA. The OEB expects to provide further policy guidance on the LRAMVA following this meeting. This meeting was prompted by issues on the calculation for demand savings arising in several recent applications. In response to these issues, the IESO sent a letter to OEB staff that clarified the definition of verified demand savings. This took place after the draft and comment process had been completed in this application. A copy of both the OEB's and the IESO's letters have been added to the case files associated with this process.

Findings

The OEB will not dispose of the balance in the LRAMVA account at this time. In making this decision it is noted that the OEB made a similar decision in other proceedings this year.¹¹

The OEB has initiated a generic review of how the revenue from demand savings should be reflected in the LRAMVA account. The outcome of that review may impact the LRAMVA balance for Thunder Bay Hydro and therefore disposition of any balance will not be considered until the OEB's review is complete.

9 RESIDENTIAL RATE DESIGN

Currently, all residential distribution rates include a fixed monthly charge and a variable usage charge. The OEB's April 2, 2015 policy on electricity distribution rate design set out that distribution rates for residential customers will transition to a fully fixed rate structure from the current combination of fixed and variable charges over four years. Starting in 2016, the fixed rate will increase gradually, and the usage rate will decline.

The 2016 rate model has been revised to include the first year of the gradual transition to fully fixed rates and its impact to the monthly fixed charge that residential customers will pay. The OEB is requiring distributors to calculate and report on the rate impacts of the change so that strategies may be employed to smooth the transition for the customers most impacted, such as those that consume less electricity, if mitigation is required. In support of this, the OEB requires distributors to calculate the impact of this change to residential customers in general; it also requires applicants to calculate the combined impact of the fixed rate increase and any other changes in the cost of

¹¹ Centre Wellington (EB-2015-0059); Niagara Peninsula Energy Inc. (EB-2015-0090).

distribution service for those customers who are at the 10th percentile of overall consumption. Any increase of 10% or greater to these low-consumption customers' bills arising from changes made in this Decision, or an increase to the monthly fixed charge of greater than \$4 prior to incentive rate-setting adjustments, may result in the requirement for a longer transition period than four years specified in the OEB policy. Distributors may also propose other strategies to smooth out these increases as appropriate.

Adjustments to Thunder Bay Hydro's rate model to implement the change in fixed rates results in an increase to the fixed charge prior to IRM adjustments of \$1.99; OEB staff has calculated the bill impacts of this Decision, including the fixed rate change, to be an increase of 2.98% for typical low consumption customers.

Findings

The OEB finds that the increases to the monthly fixed charge and to low consumption consumers are consistent with OEB policy and approves the increase as calculated in the final rate model.

10 IMPLEMENTATION AND ORDER

Rate Model

With this Decision and Rate Order are a rate model, applicable supporting models and a Tariff of Rates and Charges (Schedule A). Entries in the model were reviewed to ensure that they were in accordance with Thunder Bay Hydro's EB-2012-0167 cost of service decision, the 2015 OEB-approved Tariff of Rates and Charges as well as the cost, revenue and consumption results from 2014 as reported by Thunder Bay Hydro to the OEB. The rate model was adjusted, where applicable, to correct any discrepancies.

THE ONTARIO ENERGY BOARD ORDERS THAT

1. The Tariff of Rates and Charges set out in Schedule A of this Decision and Rate Order is approved effective May 1, 2016 for electricity consumed or estimated to have been consumed on and after such date. Thunder Bay Hydro Electricity Distribution Inc. shall notify its customers of the rate changes no later than the delivery of the first bill reflecting the new rates.

ADDRESS

Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, 27th Floor
Toronto ON M4P 1E4
Attention: Board Secretary
E-mail: boardsec@ontarioenergyboard.ca
Tel: 1-888-632-6273 (Toll free)
Fax: 416-440-7656

DATED at Toronto, March 17, 2016

ONTARIO ENERGY BOARD

Original signed by

Kirsten Walli
Board Secretary

Schedule A

To Decision and Rate Order

Tariff of Rates and Charges

OEB File No: EB-2015-0103

DATED: March 17, 2016

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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

EB-2015-0103

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	15.24
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0097
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until April 30, 2017	\$/kWh	(0.0010)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until April 30, 2017		
Applicable only for Non-RPP Customers	\$/kWh	0.0037
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0061
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0046

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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

EB-2015-0103

ONTARIO ELECTRICITY SUPPORT PROGRAM RECIPIENTS

In addition to the charges specified on page 1 of this tariff of rates and charges, the following credits are to be applied to eligible residential customers.

APPLICATION

The application of the charges are in accordance with the Distribution System Code (Section 9) and subsection 79.2(4) of the Ontario Energy Board Act, 1998.

The application of these 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.

In this class:

“Aboriginal person” includes a person who is a First Nations person, a Métis person or an Inuit person;

“account-holder” means a consumer who has an account with a distributor that falls within a residential-rate classification as specified in a rate order made by the Ontario Energy Board under section 78 of the Act, and who lives at the service address to which the account relates for at least six months in a year;

“electricity-intensive medical device” means an oxygen concentrator, a mechanical ventilator, or such other device as may be specified by the Ontario Energy Board;

“household” means the account-holder and any other people living at the accountholder’s service address for at least six months in a year, including people other than the account-holder’s spouse, children or other relatives;

“household income” means the combined annual after-tax income of all members of a household aged 16 or over;

MONTHLY RATES AND CHARGES

Class A

(a) account-holders with a household income of \$28,000 or less living in a household of one or two persons;

(b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of three persons;

(c) account-holders with a household income of between \$39,001 and \$48,000 living in a household of five persons; and

(d) account-holders with a household income of between \$48,001 and \$52,000 living in a household of seven or more persons; but does not include account-holders in Class E.

OESP Credit	\$	(30.00)
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Class B

(a) account-holders with a household income of \$28,000 or less living in a household of three persons;

(b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of four persons;

(c) account-holders with a household income of between \$39,001 and \$48,000 living in a household of six persons;

but does not include account-holders in Class F.

OESP Credit	\$	(34.00)
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Class C

(a) account-holders with a household income of \$28,000 or less living in a household of four persons;

(b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of five persons;

(c) account-holders with a household income of between \$39,001 and \$48,000 living in a household of seven or more persons;

but does not include account-holders in Class G.

OESP Credit	\$	(38.00)
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Class D

(a) account-holders with a household income of \$28,000 or less living in a household of five persons; and

(b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of six persons;

but does not include account-holders in Class H.

OESP Credit	\$	(42.00)
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Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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

EB-2015-0103

ONTARIO ELECTRICITY SUPPORT PROGRAM RECIPIENTS

Class E

Class E comprises account-holders with a household income and household size described under Class A who also meet any of the following conditions:

- (a) the dwelling to which the account relates is heated primarily by electricity;
- (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
- (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (45.00)

Class F

(a) account-holders with a household income of \$28,000 or less living in a household of six or more persons;
 (b) account-holders with a household income of between \$28,001 and \$39,000 living in a household of seven or more persons; or
 (c) account-holders with a household income and household size described under Class B who also meet any of the following conditions:

- i. the dwelling to which the account relates is heated primarily by electricity;
- ii. the account-holder or any member of the account-holder's household is an Aboriginal person; or
- iii. the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates

OESP Credit \$ (50.00)

Class G

Class G comprises account-holders with a household income and household size described under Class C who also meet any of the following conditions:

- (a) the dwelling to which the account relates is heated primarily by electricity;
- (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
- (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (55.00)

Class H

Class H comprises account-holders with a household income and household size described under Class D who also meet any of the following conditions:

- (a) the dwelling to which the account relates is heated primarily by electricity;
- (b) the account-holder or any member of the account-holder's household is an Aboriginal person ; or
- (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (60.00)

Class I

Class I comprises account-holders with a household income and household size described under paragraphs (a) or (b) of Class F who also meet any of the following conditions:

- (a) the dwelling to which the account relates is heated primarily by electricity;
- (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
- (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit \$ (75.00)

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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EB-2015-0103

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than, 50 kW. This class includes small commercial services such as small stores, small service stations, restaurants, churches, small offices and other establishments with similar loads. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	27.14
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0140
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until April 30, 2017	\$/kWh	(0.0010)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until April 30, 2017		
Applicable only for Non-RPP Customers	\$/kWh	0.0037
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0058
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0042

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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

EB-2015-0103

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,000 kW. This class includes medium and large-size commercial buildings, apartment buildings, condominiums, trailer courts, industrial plants, as well as large stores, shopping centers, hospitals, manufacturing or processing plants, garages, storage buildings, hotels, motels, schools, colleges, arenas and other comparable premises. Note that for the application of the Retail Transmission Rate - Network Service Rate and the Retail Transmission Rate - Line and Transformation Connection Service Rate the following sub-classifications apply:

General Service 50 to 1,000 kW non-interval metered

General Service 50 to 1,000 kW interval metered.

Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	204.24
Distribution Volumetric Rate	\$/kW	2.5993
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until April 30, 2017	\$/kW	(0.4008)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until April 30, 2017		
Applicable only for Non-RPP Customers	\$/kW	1.4976
Retail Transmission Rate - Network Service Rate	\$/kW	2.2754
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6275
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.4136
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.7988

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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

EB-2015-0103

GENERAL SERVICE 1,000 TO 4,999 KW SERVICE CLASSIFICATION

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

APPLICATION

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

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the 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	\$	2,922.18
Distribution Volumetric Rate	\$/kW	2.3087
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until April 30, 2017	\$/kW	(0.3724)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until April 30, 2017		
Applicable only to Class B, Non-RPP customers who are not Wholesale Market Participants	\$/kW	1.2859
Retail Transmission Rate - Network Service Rate	\$/kW	2.4136
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.7988

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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

EB-2015-0103

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, private sentinel lighting etc. The customer will provide detailed manufacturing information/documentation with regard to electrical demand/ consumption of the proposed unmetered load. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	7.05
Distribution Volumetric Rate	\$/kWh	0.0103
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until April 30, 2017	\$/kWh	(0.0010)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until April 30, 2017		
Applicable only for Non-RPP Customers	\$/kWh	0.0037
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0058
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0042

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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

EB-2015-0103

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.

APPLICATION

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	6.96
Distribution Volumetric Rate	\$/kW	5.5838
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until April 30, 2017	\$/kW	(0.5377)
Retail Transmission Rate - Network Service Rate	\$/kW	1.7248
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.2845

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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EB-2015-0103

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting operation, controlled by photocells. The consumption for these customers will be based on the calculated load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. 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)	\$	1.16
Distribution Volumetric Rate	\$/kW	7.0017
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until April 30, 2017	\$/kW	(0.3631)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until April 30, 2017		
Applicable only for Non-RPP Customers	\$/kWh	1.3076
Retail Transmission Rate - Network Service Rate	\$/kW	1.7159
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.2581

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	\$/kWh	0.0011
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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EB-2015-0103

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
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Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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EB-2015-0103

ALLOWANCES

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

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.

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Customer Administration

Arrears certificate	\$	15.00
Statement of account	\$	15.00
Easement letter	\$	15.00
Account history	\$	15.00
Returned cheque (plus bank charges)	\$	25.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Special meter reads	\$	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
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
Install/remove load control device - during regular hours	\$	65.00
Install/remove load control device - after regular hours	\$	185.00

Other

Service call - customer-owned equipment	\$	30.00
Service call - after regular hours	\$	165.00
Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	22.35

Thunder Bay Hydro Electricity Distribution Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2016

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EB-2015-0103

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	\$	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	1.0342
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0239

Schedule B

To Decision and Rate Order

List of Rates and Charges Not Affected by the Price Cap or Annual IR Index

OEB File No: EB-2015-0103

DATED: March 17, 2016

The following rates and charges are not affected by the Price Cap or Annual IR Index:

- Rate riders
- Rate adders
- Low voltage service charges
- Retail transmission service rates
- Wholesale market service rate
- Rural or remote electricity rate protection charge
- Standard supply service – administrative charge
- Transformation and primary metering allowances
- Loss factors
- Specific service charges
- microFit charge
- Retail service charges