

COOPERATIVE HYDRO EMBRUN INC.

2016 IRM APPLICATION

EB-2016-0063

Submitted on: August 16, 2016

Cooperative Hydro Emburn Inc.  
821, Rue Notre Dame, Suite 200.  
Embrun, ON  
K0A 1W1



August 15, 2016  
Ontario Energy Board P.O.  
Box 2319 27th Floor  
2300 Yonge Street Toronto,  
Ontario M4P 1E4

**Attention: Ms. Kirsten Walli, Board Secretary**  
**Regarding: EB-2012-0082 2017 IRM Rate Application**

Dear Ms. Walli:

On July 14, 2016, the Ontario Energy Board (“OEB” or the “Board”) issued its Filing Requirements for Electricity Distribution Rate Applications for 2017 Rate Applications, Chapter 3 for Incentive Rate-Setting Applications.

Accordingly, Cooperative Hydro Embrun Inc. (the “Applicant” or “CHE”) submits its 2017 Distribution Rate Application for rates effective January 1, 2017. All procedures and filing requirements as outline in the Board’s IRM Report and subsequent filing guidelines were followed in the preparation of this submission and in the development of the adjusted rates, utilizing the Boards models as required.

CHE’s application, which has been electronically filed through the Board’s web portal, consists of two (2) hard copies, which includes the covering letter, Manager's Summary, completed copies of the 2017 IRM Rate Generator and CHE’s current and proposed Tariff Sheets.

The estimated bill impact for residential customers consuming 750 kWh per month would result in an increase in the total bill of 0.90% or \$1.22. A General Service<50 kW, 2000 kWh per month customer would experience an increase of 0.3% or \$1.06.

CHE is requesting the adjusted rates be approved for implementation on January 1, 2017.

We would be pleased to provide any further information or details that you may require relative to this application.

Yours truly,

A handwritten signature in black ink, appearing to be 'B. Lamarche', written in a cursive style.

Benoit Lamarche, General Manager,  
Cooperative Hydro Embrun Inc.  
821 rue Notre-Dame  
Suite 200  
Embrun, ON  
K0A 1W1  
Tel: 613-443-5110

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**IN THE MATTER OF** the Ontario Energy Board Act, 1998, S.O.  
1998, c.15, (Schedule B); **AND IN THE MATTER OF** an  
Application by Cooperative Hydro Embrun Inc. to the Ontario Energy Board for an Order  
or Orders approving or fixing just and reasonable distribution rates and other service  
charges to be effective January 1, 2017.

## MANAGER'S SUMMARY

### 1. INTRODUCTION

Cooperative Hydro Embrun Inc. hereby applies to the Ontario Energy Board (the "Board")  
for approval of its 2017 Distribution Rate Adjustments effective January 1, 2017.  
Cooperative Hydro Embrun applies for an Order or Orders approving the proposed  
distribution rates and other charges as set out in Appendix 2 of this Application as just  
and reasonable rates and charges pursuant to Section 78 of the OEB Act.

Cooperative Hydro Embrun has followed Chapter 3 of the Board's Filing Requirements  
for Transmission and Distribution Applications dated July 14, 2016 along with the Key  
References listed at section 3.1.1 of the Chapter 3 Incentive Rate-Setting Applications

In the event that the Board is unable to provide a Decision and Order in this Application  
for implementation by the Applicant as of January 1, 2017, Cooperative Hydro Embrun  
requests that the Board issue an Interim Rate Order declaring the current Distribution  
Rates and Specific Service Charges as interim until the decided implementation date of  
the approved 2017 distribution rates. If the effective date does not coincide with the  
Board's decided implementation date for 2017 distribution rates and charges,  
Cooperative Hydro Embrun requests to be permitted to recover the incremental revenue  
from the effective date to the implementation date.

1 Cooperative Hydro Embrun requests that this application be disposed of by way of a  
2 written hearing. Cooperative Hydro Embrun confirms that the billing determinants used in  
3 the model are from most recent reported RRR filings. The utility reviewed both the  
4 existing "Tariff Sheets" and billing determinants in the pre-populated worksheets and  
5 confirms that they were accurate.

6 In the preparation of this application, Cooperative Hydro Embrun used the 2017 IRM Rate  
7 Generator issued on July 14, 2016. The rate and other adjustments being applied for and  
8 as calculated through the use of the above models include a Price Cap Incentive Rate-  
9 Setting ("Price Cap IR") option to adjust its 2017 rates. (The Price Cap IR methodology  
10 provides for a mechanistic and formulaic adjustment to distribution rates and charges in  
11 the period between Cost of Service applications). The model also adjusts Retail  
12 Transmission Service Rates in accordance with Board Guideline G-2008-0001 -  
13 Electricity Distribution Retail Transmission Service Rates revised on June 28, 2012.

14 Cooperative Hydro Embrun also applies for the following matter;

- 15 • Continuance of the Specific Services charges and Loss Factors.
- 16 • Continuance of the MicroFit monthly charge.
- 17 • Continuance of the Smart Meter Entity charge.
- 18 • In compliance of the OEB's new rate design policy for residential customers,  
19 Cooperative Hydro Embrun requests approval of a revised Minimum Fixed  
20 Charge of \$21.88 up from previously Board Approved \$18.25 and Volumetric  
21 Charge of \$0.0072 down from previously Board Approved \$0.0106. Further  
22 details on Bill Impacts are presented at Section 16 of this application.

1 The annual adjustment mechanism is not being applied to the following components of  
2 delivery rates:

- 3 • Rate Adders, Rate Riders, Low Voltage Service Charges, Retail Transmission  
4 Service Rates, Wholesale Market Service Rate, Rural and Remote Rate  
5 Protection Benefit and Charge, Standard Supply Service – Administrative  
6 Charge, MicroFIT Service Charge, Specific Service Charges, Transformation  
7 and Primary Metering Allowances, Smart Metering Entity Charge

8 CHE recognizes that the utility, its shareholder and all its customer classes will be affected  
9 by the outcome of the herein application.

## 2. DISTRIBUTOR'S PROFILE

Cooperative Hydro Embrun is a Cooperative that is owned by the people who use its services and carries on the business of distributing electricity within the Town of Embrun. Cooperative Hydro Embrun's customers totals approximately 2049 and is comprised of over 90.48% residential customers while 8.59% are small business or industrial based. The balance of the utility's customer base is comprised of Street Lights and Unmetered Scattered Load

Cooperative Hydro Embrun relies on approximately 27 km of circuits and 288 deliver energy and power to approximately 2,049 customers. Cooperative Hydro Embrun's circuits include approximately 16 km of overhead lines and 17 km of underground line, all carrying a voltage of less than or equal to 4.8 kV circuits.

Cooperative Hydro Embrun's last Cost of Service application was for rates effective January 1, 2014.



### 3. PUBLICATION NOTICE

It is CHE's understanding that the Ontario Energy Board will make arrangements to publish the notice of Application however, if the OEB is unable to do so, the utility proposes that its notice related to this Application appears in the following publications;

- The News/Le Reflet", a bilingual unpaid local publication with an average circulation of approximately 13,000.

The primary contact for the herein application is;

Benoit Lamarche, General Manager,  
Coopérative Hydro Embrun Inc.  
821 rue Notre-Dame  
Suite 200  
Embrun, ON  
K0A 1W1  
Tel: 613-443-5110

The alternate contact for the application is;

Manuela Ris-Schofield  
Tandem Energy Services Inc.  
Tel: 519-856-0080  
Mobile: 416-562-9295

#### 4. PRICE CAP ADJUSTMENT (Ch3 3.2.1)

As per Board policy (Chapter 3), distribution rates are to be adjusted according to the Price Cap model presented through the Board's Rate Generator model. The calculation would be based on the annual percentage change in the GDP-IPI index.

In accordance with the Report of the Board: Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for Ontario's Electricity Distributors, Cooperative Hydro Embrun was assigned Stretch Factor Group II with a Price Escalator of 2.10, Price Cap Index of 1.95% and a Stretch Factor Value of 0.15%.

The following table shows Cooperative Hydro Embrun's applicable factor for its Price Cap Adjustment.

Table 1 – Price Cap Parameters

Stretch Factor Group	I
Set Price Escalator	2.10%
Revised Price Escalator	0.00%
Stretch Factor Value	0.15%
Productivity Factor	0.00%
Price Cap Index	1.95%

While the price factor adjustment under this application would apply to the fixed and volumetric distribution rates for Cooperative Hydro Embrun, it would not affect the following:

- Rate adders and riders; Low voltage service charges; Retail Transmission Service Rates; Wholesale Market Service Rate; Rural Rate Protection Charge; Standard Supply Service – Administrative Charge; MicroFIT Service Charge; Specific Service Charges

## 5. REVENUE TO COST RATIO ADJUSTMENTS (Ch3 3.2.2)

Cooperative Hydro Embrun is not proposing to adjust its revenue to cost ratios in this proceeding as its revenue to cost ratios were recently adjusted and set as part of the 2014 Cost of Service Application.

## 6. RATE DESIGN FOR RESIDENTIAL ELECTRICITY (Ch3 3.2.3)

In accordance with the Rate Design for Residential Electricity policy issued on April 2, 2015, Cooperative Hydro Embrun followed the approach set out in sheet 16 of the rate generator model to implement the second of four yearly adjustment to its Monthly Fixed Charge. Worksheet 16 of the model, which is reproduced below, shows an incremental fixed charge of \$3.21 which falls below the \$4.00 threshold. Table 2b) shows the existing rates compared to the proposed rates. The bill impacts are discussed further at Section 15 of this application.

Table 2a) – Rate Design Transition

<u>Rate Design Transition</u>	Revenue from Rates	Current F/V Split	Decoupling MFC Split	Incremental Fixed Charge (\$/month/year)	New F/V Split	Adjusted Rates <sup>1</sup>	Revenue at New F/V Split
Current Residential Fixed Rate (inclusive of R/C adj.)	18.2500 448,512	65.5%	11.5%	3.21	77.0%	21.45	527,401
Current Residential Variable Rate (inclusive of R/C adj.)	0.0106 236,310	34.5%			23.0%	0.0071	158,283
	684,822						685,684

Table 2b) – Current vs Proposed Distribution Rates

Rate Class	Current MFC	Current Volumetric Charge		Proposed MFC	Proposed Volumetric Charge
Residential	18.25	0.0106		21.88	0.0072
GS<50 kW	17.57	0.0145		17.91	0.0148
GS>50 kW	195.73	3.6268		199.55	3.6975
USL	20.77	0.0054		21.18	0.0055
Street Lighting	1.95	7.9359		1.99	8.0907

## 7. RTSR ADJUSTMENTS (Ch3 3.2.4)

Cooperative Hydro Embrun is applying for an adjustment of its Retail Transmission Service Rates based on a comparison of historical transmission costs adjusted for new UTR levels and revenues generated from existing RTSRs. This approach is expected to minimize variances in the USoA Accounts 1584 and 1586.

Cooperative Hydro Embrun used the RTSR Adjustment Worksheets embedded in the IRM Model, to determine the proposed adjustments to the current Retail Transmission Service Rates approved in 2016 IRM application.

The Loss Factor applied to the metered kWh is the actual Board-approved 2014 Loss Factor.

The proposed adjustments of the Retail Transmission Service Rates are shown in the table below and the detailed calculations can be found in the 2017 IRM Model filed in conjunction with this application.

1

Table 3 – Proposed RTSR

Retail Transmission Rate - Network Service Rate			
Rate Description	Unit	Current RTSR- Network	Proposed RTSR- Network
Residential	\$/kWh	0.0068	0.0073
GS<50 kW	\$/kWh	0.0063	0.0068
GS>50 kW	\$/kWh	2.5213	2.7157
USL	\$/kW	0.0063	0.0068
Street Lighting	\$/kW	1.9016	2.0482

2

Retail Transmission Rate - Line and Transformation Connection Service Rate			
Rate Description	Unit	Current RTSR- Connection	Proposed RTSR- Connection
Residential	\$/kWh	0.0053	0.0057
GS<50 kW	\$/kWh	0.0046	0.0050
GS>50 kW	\$/kWh	1.8644	2.0225
USL	\$/kW	0.0046	0.0050
Street Lighting	\$/kW	1.4413	1.5636

3

4

## 8. DEFERRAL AND VARIANCE ACCOUNTS (Ch3 3.2.5)

Cooperative Hydro Embrun has completed the Board Staff's 2017 IRM Rate Generator – Tab 3 Continuity Schedule and the threshold test shows a claim per kWh of \$0.0047. The Report of the Board on Electricity Distributors' Deferral and Variance Account Review Report (the "EDDVAR Report") provides that during the IRM plan term, the distributor's Group 1 audited account balances will be reviewed and disposed if the preset disposition threshold of \$0.001 per kWh (debit or credit) is exceeded. Since the claim exceed this threshold test amount, Cooperative Hydro Embrun is therefore seeking disposal of its deferral and variance account in this proceeding. The Cooperative Hydro Embrun Group 1 total claim balance is \$139,102 and is comprised of the following account balances. Details of these balances can be found in the 2017 IRM Model.

Table 4: Deferral and Variance Account balances

Group 1 Accounts		
LV Variance Account	1550	\$68,163
Smart Meter Entity Charge Variance	1551	\$-675
RSVA - Wholesale Market Service Charge Class B	1580	\$-73,327
RSVA - Retail Transmission Network Charge	1584	\$4,832
RSVA - Retail Transmission Connection Charge	1586	\$19,405
RSVA - Power (excluding Global Adjustment)	1588	\$23,102
RSVA - Power - Sub-account - Global Adjustment	1589	\$29,402
Disposition and Recovery/Refund of Regulatory Balances (2010)	1595	\$3,812
Disposition and Recovery/Refund of Regulatory Balances (2011)	1595	
Disposition and Recovery/Refund of Regulatory Balances (2012)	1595	\$110,592
Disposition and Recovery/Refund of Regulatory Balances (2013)	1595	
Disposition and Recovery/Refund of Regulatory Balances (2014)	1595	
Disposition and Recovery/Refund of Regulatory Balances (2015)	1595	
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		\$139,102

## 9. SPECIFIC SERVICE CHARGE AND LOSS FACTORS

Cooperative Hydro Embrun is applying to continue the current Specific Service Charges, and Loss Factors as approved by the Board (EB-2013-0122).

## 10. GLOBAL ADJUSTMENT PROCESS (3.2.5.2)

Cooperative Hydro Embrun 'settlement process has not changed since it completed the OEB's Global Adjustment questionnaire. CHE's process can be summarized as follows.

*CHE does not have any Class A customers. For its Class B customers, CHE reviews the general service accounts not eligible on a bi-monthly basis to determine which customers are eligible for the RPP. Any billing adjustments are done as part of the next billing period.*

*CHE uses Global adjustment 2nd estimate rate posted on the IESO website for the settlement month. The variance recorded and reflected in RSVA GA 1589 on a quarterly basis however CHE tracks the variances in a spreadsheet on a monthly basis. When completing RPP vs. market price claim submitted via the IESO Portal, CHE uses a bottom up approach. The utility pulls pull out the RPP revenues for the month, divide that amount by the fixed OEB power rate to determine the kWh. With the total amount of kWh's sold obtained, CHE then multiplies the amount with the estimated power rate and that results in the amount of dollars claimed/paid from/to IESO. CHE trues-up on a monthly basis upon receipt of the power bills from IESO and Hydro One. The difference between estimates and actuals, whether a payment or a claim is settled in the following month.*

*In terms of Control and Oversight, CHE follows a substantive approach using reconciliation procedures to ensure accuracy and completeness for the settlement submission process where possible. In addition, CHE does monthly bill testing for each class of customer, recalculates the various charges based on approved rates and ensure all correct GL accounts are used. CHE also has routine month end balancing processes to ensure sub ledger*

### 11. DISPOSITION OF LRAM (Ch3 3.2.6)

In accordance with the Board's Guidelines for Electricity Distributor Conservation and Demand Management (EB-2012-0003) issued on April 26, 2012, at a minimum, distributors must apply for disposition of the balance in the LRAMVA at the time of their Cost of Service rate applications if the balance is deemed significant by the applicant.

Cooperative Hydro Embrun has populated the LRAMVA work form and found the balance not to be significant enough to include in its claim. The utility therefore proposes to dispose of its balances in account 1568 in its 2018 Cost of Service application which will be filed in April of 2017.

The utility has filed the LRAMVA work form in conjunction with this application.

## 12. TAX CHANGE (Ch3 3.2.7)

Cooperative Hydro Embrun has completed worksheets 8 of the IRM model which resulted in a tax change of \$169 from the tax rates embedded in its OEB 2014 Board Approved base rate. Since the amount is marginal, CHE proposes to transfer the entire 50/50 sharing amount to Account 1595 for disposition at a future date.



1     13. ICM / Z-FACTOR (Ch3 3.2.8)  
2

3     Cooperative Hydro Embrun is not applying for recovery of Incremental Capital or Z-Factor  
4     in this proceeding.

5     14. CURRENT TARIFF SHEETS  
6

7     Cooperative Hydro Embrun current tariff sheets are provided in Appendix 1.

8     15. PROPOSED TARIFF SHEETS  
9

10    The proposed tariff sheets generated by the 2017 IRM Rate Generator are provided in  
11    the Appendix 2.

12    16. BILL IMPACTS  
13

14    Table 5 below shows the bill impacts. The bill impacts are calculated based on the dollar  
15    change in Sub-Total C – Delivery divided by total bill before tax and before OCEB at  
16    current rates. The 10% percentile was calculated in the following manner

- 17       1)     The utility produced a report for 2015 which included Residential Customer  
18             Number and their Monthly Consumptions.
- 19       2)     The report was then sorted by lowest to highest consumption.
- 20       3)     Less than 50kWh monthly consumption was removed from the file.
- 21       4)     The utility then calculate the 10th percentile by taking 10% of the customer  
22             count (or number of records in the report) , (e.g. 2120 customer = 212)
- 23       5)     The utility then found the record at line 487 and this customer's consumption  
24             of 301 kWh/month became the "ceiling" for the lowest 10th percentile.
- 25       6)     The file used to calculate the 10th percentile is attached for your review.

- 1 The total residential bill impact for the 10<sup>th</sup> percentile level of 301 kWh is 4.30%. The
- 2 residential bill impact for the standard 750kWh is 0.90%. Detailed bill impacts for each
- 3 rate class are provided in the Appendix 3
- 4 With the exception of the GS<50 which uses the typical 2000 kWh/month, the other
- 5 classes were calculated using a rounded monthly average consumption.

6

7

**Table 5 – Summary of Bill Impacts**

RATE CLASSES / CATEGORIES (eg: Residential TOU, Residential Retailer)	Units	Sub-Total						Total	
		A		B		C		A + B + C	
		\$	%	\$	%	\$	%	\$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$1.08	4.1%	\$1.08	3.2%	\$1.08	3.2%	\$1.22	0.9%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	kWh	\$0.94	2.0%	\$0.94	1.4%	\$0.94	1.4%	\$1.06	0.3%
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	\$9.48	2.0%	\$9.48	1.8%	\$37.58	4.3%	\$47.57	0.7%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - Non-RPP (Other)	kWh	\$0.04	1.9%	\$0.04	0.7%	\$0.04	0.7%	\$0.05	0.1%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Retailer)	kW	\$4,644.00	2.0%	\$4,644.00	1.8%	\$13,245.84	3.7%	\$14,957.80	3.7%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$2.61	12.2%	\$2.61	10.4%	\$2.61	10.4%	\$2.95	4.3%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	\$1.08	4.1%	\$1.08	3.2%	\$1.08	3.2%	\$1.22	0.9%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	\$2.61	12.2%	\$2.61	10.4%	\$2.61	10.4%	\$2.95	4.3%

9

1        2014 RRWF

2

3        The Revenue Requirement Work Form from Cooperative Hydro Embrun's 2014 Cost of

4        Service Application (EB-2013-0139) is presented at Appendix 4.

5

6                                ~Respectfully Submitted~

## INDEX TO APPENDICES

The following are appended to and form part of this Application;

Appendix 1: Current Tariff Sheet

Appendix 2: Proposed Tariff Sheet

Appendix 3: Bill Impacts

Appendix 4: 2014 RRWF

## Appendix 1: Current Tariff Sheet

**Schedule A**

**To Decision and Rate Order**

**Tariff of Rates and Charges**

**OEB File No: EB-2015-0063**

**DATED: December 10, 2015**

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2015-0063

## RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. All customers are single-phase. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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	\$	18.25
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0106
Low Voltage Service Rate	\$/kWh	0.0018
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0053

### 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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2015-0063

## 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)
-------------	----	---------

#### 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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**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2015-0063

## 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)

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2015-0063

## **GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION**

This classification applies to a non-residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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	\$	17.57
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0145
Low Voltage Service Rate	\$/kWh	0.0016
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0063
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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**  
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EB-2015-0063

## **GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION**

This classification applies to a non-residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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	\$	195.73
Distribution Volumetric Rate	\$/kW	3.6268
Low Voltage Service Rate	\$/kW	0.5928
Retail Transmission Rate - Network Service Rate	\$/kW	2.5213
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.8644

### **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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**  
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## **UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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 (per customer)	\$	20.77
Distribution Volumetric Rate	\$/kWh	0.0054
Low Voltage Service Rate	\$/kWh	0.0016
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0063
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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
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## **STREET LIGHTING SERVICE CLASSIFICATION**

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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 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)	\$	1.95
Distribution Volumetric Rate	\$/kW	7.9359
Low Voltage Service Rate	\$/kW	0.4583
Retail Transmission Rate - Network Service Rate	\$/kW	1.9016
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.4413

### **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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
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### **microFIT SERVICE CLASSIFICATION**

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

### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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 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
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**Cooperative Hydro Embrun Inc.**  
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**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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by Ontario Energy Board, or as specified herein.

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**Customer Administration**

Arrears certificate	\$	15.00
Statement of Account	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Request for other billing information	\$	15.00
Income tax letter	\$	15.00
Account history	\$	15.00
Credit check (plus credit agency costs)	\$	25.00
Returned cheque (plus bank charges)	\$	15.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	15.00
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	\$	20.00
Collection of account charge - no disconnection - after regular hours	\$	50.00
Disconnect/reconnect charge - at meter during regular hours	\$	25.00
Disconnect/reconnect charge - at meter after hours	\$	50.00
Disconnect/reconnect charge - at meter during regular hours	\$	185.00
Disconnect/reconnect charge - at pole after hours	\$	415.00
Install/remove load control device - during regular hours	\$	25.00
Install/remove load control device - after regular hours	\$	50.00

**Other**

Special meter reads	\$	20.00
Service call - customer-owned equipment	\$	30.00
Service call - after regular hours	\$	165.00
Temporary service - installation and removal - overhead - no transformer	\$	500.00
Temporary service - installation and removal - underground - no transformer	\$	300.00
Temporary service - installation and removal - overhead - with transformer	\$	1,000.00
Specific charge for access to the power poles - \$/pole/year	\$	22.35

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**  
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EB-2015-0063

## 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by Ontario Energy Board, or as specified herein.

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

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the 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	1.0663
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0555



**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-2015-0063**

**DATED: December 10, 2015**

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

## Appendix 2: Proposed Tariff Sheet

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2017**  
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EB-2016-0065

## **RESIDENTIAL SERVICE CLASSIFICATION**

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. All customers are single-phase. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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	\$	21.88
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0072
Low Voltage Service Rate	\$/kWh	0.0018
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0073
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0057

## **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

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EB-2016-0065

**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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**Cooperative Hydro Embrun Inc.**  
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**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)

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EB-2016-0065

**GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION**

This classification applies to a non-residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. 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 Ontario Energy Board, and amendments thereto as approved by Ontario Energy Board, which may be applicable to the administration of this schedule.

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

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

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	17.91
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0148
Low Voltage Service Rate	\$/kWh	0.0016
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050

**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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2017**  
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EB-2016-0065

**GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION**

This classification applies to a non-residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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	\$	199.55
Distribution Volumetric Rate	\$/kW	3.6975
Low Voltage Service Rate	\$/kW	0.5928
Retail Transmission Rate - Network Service Rate	\$/kW	2.7157
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.0225

**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



**Cooperative Hydro Embrun Inc.**  
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**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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 (per customer)	\$	21.18
Distribution Volumetric Rate	\$/kWh	0.0055
Low Voltage Service Rate	\$/kWh	0.0016
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0050

**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

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## **STREET LIGHTING SERVICE CLASSIFICATION**

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. 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 Ontario Energy Board, and amendments thereto as approved by 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 Ontario Energy Board, and amendments thereto as approved by 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 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)	\$	1.99
Distribution Volumetric Rate	\$/kW	8.0907
Low Voltage Service Rate	\$/kW	0.4583
Retail Transmission Rate - Network Service Rate	\$/kW	2.0482
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5636

### **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

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**microFIT SERVICE CLASSIFICATION**

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

**APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of Ontario Energy Board, and amendments thereto as approved by 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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**ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.6000)
Primary Metering Allowance for transformer losses - applied to measured demand and energy	%	1.00

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## **SPECIFIC SERVICE CHARGES**

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### **Customer Administration**

Arrears certificate	\$	15.00
Statement of Account	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Request for other billing information	\$	15.00
Income tax letter	\$	15.00
Account history	\$	15.00
Credit check (plus credit agency costs)	\$	25.00
Returned cheque (plus bank charges)	\$	15.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	15.00
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	\$	20.00
Collection of account charge - no disconnection - after regular hours	\$	50.00
Disconnect/reconnect charge - at meter during regular hours	\$	25.00
Disconnect/reconnect charge - at meter after hours	\$	50.00
Disconnect/reconnect charge - at meter during regular hours	\$	185.00
Disconnect/reconnect charge - at pole after hours	\$	415.00
Install/remove load control device - during regular hours	\$	25.00
Install/remove load control device - after regular hours	\$	50.00

### **Other**

Special meter reads	\$	20.00
Service call - customer-owned equipment	\$	30.00
Service call - after regular hours	\$	165.00
Temporary service - installation and removal - overhead - no transformer	\$	500.00
Temporary service - installation and removal - underground - no transformer	\$	300.00
Temporary service - installation and removal - overhead - with transformer	\$	1,000.00
Specific charge for access to the power poles - \$/pole/year	\$	22.35

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**RETAIL SERVICE CHARGES (if applicable)**

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

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	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

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**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

1.0663

Total Loss Factor - Primary Metered Customer < 5,000 kW

1.0555

## Appendix 3: Bill Impacts





# Incentive Regulation Model for 2017 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 page 9 of the Filing Requirements For Electricity Distribution Rate Applications issued July 14, 2016.

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:

- For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of May 2016 of \$0.113/kWh (IESO's Monthly Market Report for May 2016, 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.
- Due to the change to energy consumption used in the calculation of GA rate riders for the 2017 rate year, the separate "GA Rate Riders" line is only applicable to the "Proposed" section of the bill impact tables.
- 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	1.0663	1.0663	750			
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	RPP	1.0663	1.0663	2,000			
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	kW	Non-RPP (Other)	1.0663	1.0663	33,000	80	DEMAND	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	Non-RPP (Other)	1.0663	1.0663	417			
STREET LIGHTING SERVICE CLASSIFICATION	kW	Non-RPP (Retailer)	1.0663	1.0663	30,000		DEMAND	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	RPP	1.0663	1.0663	301			
RESIDENTIAL SERVICE CLASSIFICATION	kWh	Non-RPP (Retailer)	1.0663	1.0663	750			
RESIDENTIAL SERVICE CLASSIFICATION	kWh	Non-RPP (Retailer)	1.0663	1.0663	301			
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
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Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								

**Table 2**

RATE CLASSES / CATEGORIES (eg: Residential TOU, Residential Retailer)	Units	Sub-Total						Total	
		A		B		C		A + B + C	
		\$	%	\$	%	\$	%	\$	%
1 RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$1.08	4.1%	\$1.08	3.2%	\$1.08	3.2%	\$1.22	0.9%
2 GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	\$0.94	2.0%	\$0.94	1.4%	\$0.94	1.4%	\$1.06	0.3%
3 GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	\$9.48	2.0%	\$9.48	1.8%	\$37.68	4.3%	\$42.57	0.7%
4 UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - Non-RPP (Other)	kWh	\$0.04	1.9%	\$0.04	0.7%	\$0.04	0.7%	\$0.05	0.1%
5 STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Retailer)	kW	\$4,644.00	2.0%	\$4,644.00	1.8%	\$13,245.84	3.7%	\$14,967.80	3.7%
6 RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$2.61	12.2%	\$2.61	10.4%	\$2.61	10.4%	\$2.95	4.3%
7 RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	\$1.08	4.1%	\$1.08	3.2%	\$1.08	3.2%	\$1.22	0.9%
8 RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	\$2.61	12.2%	\$2.61	10.4%	\$2.61	10.4%	\$2.95	4.3%
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20				9					

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Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION		
RPP / Non-RPP:	RPP		
Consumption	750	kWh	
Demand	-	kW	
Current Loss Factor	1.0663		
Proposed/Approved Loss Factor	1.0663		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 18.25	1	\$ 18.25	\$ 21.88	1	\$ 21.88	\$ 3.63	19.89%
Distribution Volumetric Rate	\$ 0.0106	750	\$ 7.95	\$ 0.0072	750	\$ 5.40	\$ (2.55)	-32.08%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	-
<b>Sub-Total A (excluding pass through)</b>			\$ 26.20			\$ 27.28	\$ 1.08	4.12%
Line Losses on Cost of Power	\$ 0.1114	50	\$ 5.54	\$ 0.1114	50	\$ 5.54	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	-
GA Rate Riders					750	\$ -	\$ -	-
Low Voltage Service Charge	\$ 0.0018	750	\$ 1.35	\$ 0.0018	750	\$ 1.35	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 33.88			\$ 34.96	\$ 1.08	3.19%
RTSR - Network	\$ -	800	\$ -	\$ -	800	\$ -	\$ -	-
RTSR - Connection and/or Line and Transformation Connection	\$ -	800	\$ -	\$ -	800	\$ -	\$ -	-
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 33.88			\$ 34.96	\$ 1.08	3.19%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	800	\$ 2.88	\$ 0.0036	800	\$ 2.88	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	800	\$ 1.04	\$ 0.0013	800	\$ 1.04	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)								-
Ontario Electricity Support Program (OESP)	\$ 0.0011	800	\$ 0.88	\$ 0.0011	800	\$ 0.88	\$ -	0.00%
TOU - Off Peak	\$ 0.0870	488	\$ 42.41	\$ 0.0870	488	\$ 42.41	\$ -	0.00%
TOU - Mid Peak	\$ 0.1320	128	\$ 16.83	\$ 0.1320	128	\$ 16.83	\$ -	0.00%
TOU - On Peak	\$ 0.1800	135	\$ 24.30	\$ 0.1800	135	\$ 24.30	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 122.47			\$ 123.55	\$ 1.08	0.88%
HST	13%		\$ 15.92	13%		\$ 16.06	\$ 0.14	0.88%
<b>Total Bill on TOU</b>			\$ 138.39			\$ 139.61	\$ 1.22	0.88%

Customer Class:	GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION		
RPP / Non-RPP:	RPP		
Consumption	2,000	kWh	
Demand	-	kW	
Current Loss Factor	1.0663		
Proposed/Approved Loss Factor	1.0663		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 17.57	1	\$ 17.57	\$ 17.91	1	\$ 17.91	\$ 0.34	1.94%
Distribution Volumetric Rate	\$ 0.0145	2000	\$ 29.00	\$ 0.0148	2000	\$ 29.60	\$ 0.60	2.07%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	2000	\$ -	\$ -	2000	\$ -	\$ -	-
<b>Sub-Total A (excluding pass through)</b>			\$ 46.57			\$ 47.51	\$ 0.94	2.02%
Line Losses on Cost of Power	\$ 0.1114	133	\$ 14.77	\$ 0.1114	133	\$ 14.77	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	-
GA Rate Riders					2,000	\$ -	\$ -	-
Low Voltage Service Charge	\$ 0.0016	2,000	\$ 3.20	\$ 0.0016	2,000	\$ 3.20	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 65.33			\$ 66.27	\$ 0.94	1.44%
RTSR - Network	\$ -	2,133	\$ -	\$ -	2,133	\$ -	\$ -	-
RTSR - Connection and/or Line and Transformation Connection	\$ -	2,133	\$ -	\$ -	2,133	\$ -	\$ -	-
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 65.33			\$ 66.27	\$ 0.94	1.44%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	2,133	\$ 7.68	\$ 0.0036	2,133	\$ 7.68	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	2,133	\$ 2.77	\$ 0.0013	2,133	\$ 2.77	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	2,000	\$ 14.00	\$ 0.0070	2,000	\$ 14.00	\$ -	0.00%
Ontario Electricity Support Program (OESP)	\$ 0.0011	2,133	\$ 2.35	\$ 0.0011	2,133	\$ 2.35	\$ -	0.00%
TOU - Off Peak	\$ 0.0870	1,300	\$ 113.10	\$ 0.0870	1,300	\$ 113.10	\$ -	0.00%
TOU - Mid Peak	\$ 0.1320	340	\$ 44.88	\$ 0.1320	340	\$ 44.88	\$ -	0.00%
TOU - On Peak	\$ 0.1800	360	\$ 64.80	\$ 0.1800	360	\$ 64.80	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 315.16			\$ 316.10	\$ 0.94	0.30%
HST		13%	\$ 40.97		13%	\$ 41.09	\$ 0.12	0.30%
<b>Total Bill on TOU</b>			\$ 356.13			\$ 357.19	\$ 1.06	0.30%

Customer Class:	GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Other)	
Consumption	33,000	kWh
Demand	80	kW
Current Loss Factor	1.0663	
Proposed/Approved Loss Factor	1.0663	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 195.73	1	\$ 195.73	\$ 199.55	1	\$ 199.55	\$ 3.82	1.95%
Distribution Volumetric Rate	\$ 3.6268	80	\$ 290.14	\$ 3.6975	80	\$ 295.80	\$ 5.66	1.95%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 485.87			\$ 495.35	\$ 9.48	1.95%
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	
GA Rate Riders				\$ -	33,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.5928	80	\$ 47.42	\$ 0.5928	80	\$ 47.42	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 533.30			\$ 542.77	\$ 9.48	1.78%
RTSR - Network	\$ 2.5213	80	\$ 201.70	\$ 2.7157	80	\$ 217.26	\$ 15.55	7.71%
RTSR - Connection and/or Line and Transformation Connection	\$ 1.8644	80	\$ 149.15	\$ 2.0225	80	\$ 161.80	\$ 12.65	8.48%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 884.15			\$ 921.83	\$ 37.68	4.26%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	35,188	\$ 126.68	\$ 0.0036	35,188	\$ 126.68	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	35,188	\$ 45.74	\$ 0.0013	35,188	\$ 45.74	\$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	\$ 0.0070	33,000	\$ 231.00	\$ 0.0070	33,000	\$ 231.00	\$ -	0.00%
Ontario Electricity Support Program (OESP)	\$ 0.0011	35,188	\$ 38.71	\$ 0.0011	35,188	\$ 38.71	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1130	35,188	\$ 3,976.23	\$ 0.1130	35,188	\$ 3,976.23	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			\$ 5,302.51			\$ 5,340.19	\$ 37.68	0.71%
HST	13%		\$ 689.33	13%		\$ 694.22	\$ 4.90	0.71%
<b>Total Bill on Average IESO Wholesale Market Price</b>			\$ 5,991.84			\$ 6,034.41	\$ 42.57	0.71%

Customer Class:	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
RPP / Non-RPP:	Non-RPP (Other)		
Consumption	417	kWh	
Demand	-	kW	
Current Loss Factor	1.0663		
Proposed/Approved Loss Factor	1.0663		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 20.77		\$ -	\$ 21.18	0	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0054	417	\$ 2.25	\$ 0.0055	417	\$ 2.29	\$ 0.04	1.85%
Fixed Rate Riders	\$ -		\$ -	\$ -	0	\$ -	\$ -	
Volumetric Rate Riders	\$ -	417	\$ -	\$ -	417	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 2.25			\$ 2.29	\$ 0.04	1.85%
Line Losses on Cost of Power	\$ 0.1130	28	\$ 3.12	\$ 0.1130	28	\$ 3.12	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ -	417	\$ -	\$ -	417	\$ -	\$ -	
GA Rate Riders					417	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0016	417	\$ 0.67	\$ 0.0016	417	\$ 0.67	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 6.04			\$ 6.08	\$ 0.04	0.69%
RTSR - Network	\$ -	445	\$ -	\$ -	445	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	445	\$ -	\$ -	445	\$ -	\$ -	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 6.04			\$ 6.08	\$ 0.04	0.69%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	445	\$ 1.60	\$ 0.0036	445	\$ 1.60	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	445	\$ 0.58	\$ 0.0013	445	\$ 0.58	\$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	\$ 0.0070	417	\$ 2.92	\$ 0.0070	417	\$ 2.92	\$ -	0.00%
Ontario Electricity Support Program (OESP)	\$ 0.0011	445	\$ 0.49	\$ 0.0011	445	\$ 0.49	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1130	417	\$ 47.12	\$ 0.1130	417	\$ 47.12	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			\$ 58.75			\$ 58.79	\$ 0.04	0.07%
HST	13%		\$ 7.64	13%		\$ 7.64	\$ 0.01	0.07%
<b>Total Bill on Average IESO Wholesale Market Price</b>			\$ 66.39			\$ 66.44	\$ 0.05	0.07%

Customer Class:	STREET LIGHTING SERVICE CLASSIFICATION		
RPP / Non-RPP:	Non-RPP (Retailer)		
Consumption	30,000	kWh	
Demand	-	kW	
Current Loss Factor	1.0663		
Proposed/Approved Loss Factor	1.0663		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 1.95		\$ -	\$ 1.99	0	\$ -	\$ -	
Distribution Volumetric Rate	\$ 7.9359	30000	\$ 238,077.00	\$ 8.0907	30000	\$ 242,721.00	\$ 4,644.00	1.95%
Fixed Rate Riders	\$ -		\$ -	\$ -	0	\$ -	\$ -	
Volumetric Rate Riders	\$ -	30000	\$ -	\$ -	30000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 238,077.00			\$ 242,721.00	\$ 4,644.00	1.95%
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	\$ -	30,000	\$ -	\$ -	30,000	\$ -	\$ -	
GA Rate Riders				\$ -	30,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4583	30,000	\$ 13,749.00	\$ 0.4583	30,000	\$ 13,749.00	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 251,826.00			\$ 256,470.00	\$ 4,644.00	1.84%
RTSR - Network	\$ 1.9016	31,989	\$ 60,830.28	\$ 2.0482	31,989	\$ 65,519.87	\$ 4,689.59	7.71%
RTSR - Connection and/or Line and Transformation Connection	\$ 1.4413	31,989	\$ 46,105.75	\$ 1.5636	31,989	\$ 50,018.00	\$ 3,912.25	8.49%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 358,762.03			\$ 372,007.87	\$ 13,245.84	3.69%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	31,989	\$ 115.16	\$ 0.0036	31,989	\$ 115.16	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	31,989	\$ 41.59	\$ 0.0013	31,989	\$ 41.59	\$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	\$ 0.0070	30,000	\$ 210.00	\$ 0.0070	30,000	\$ 210.00	\$ -	0.00%
Ontario Electricity Support Program (OESP)	\$ 0.0011	31,989	\$ 35.19	\$ 0.0011	31,989	\$ 35.19	\$ -	0.00%
Non-RPP Retailer Avg. Price	\$ 0.1130	31,989	\$ 3,614.76	\$ 0.1130	31,989	\$ 3,614.76	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 362,778.72			\$ 376,024.56	\$ 13,245.84	3.65%
HST	13%		\$ 47,161.23	13%		\$ 48,883.19	\$ 1,721.96	3.65%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 409,939.95			\$ 424,907.75	\$ 14,967.80	3.65%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION		
RPP / Non-RPP:	RPP		
Consumption	301	kWh	
Demand	-	kW	
Current Loss Factor	1.0663		
Proposed/Approved Loss Factor	1.0663		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 18.25	1	\$ 18.25	\$ 21.88	1	\$ 21.88	\$ 3.63	19.89%
Distribution Volumetric Rate	\$ 0.0106	301	\$ 3.19	\$ 0.0072	301	\$ 2.17	\$ (1.02)	-32.08%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	301	\$ -	\$ -	301	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 21.44			\$ 24.05	\$ 2.61	12.16%
Line Losses on Cost of Power	\$ 0.1114	20	\$ 2.22	\$ 0.1114	20	\$ 2.22	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ -	301	\$ -	\$ -	301	\$ -	\$ -	
GA Rate Riders					301	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0018	301	\$ 0.54	\$ 0.0018	301	\$ 0.54	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 25.00			\$ 27.60	\$ 2.61	10.43%
RTSR - Network	\$ -	321	\$ -	\$ -	321	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	321	\$ -	\$ -	321	\$ -	\$ -	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 25.00			\$ 27.60	\$ 2.61	10.43%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	321	\$ 1.16	\$ 0.0036	321	\$ 1.16	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	321	\$ 0.42	\$ 0.0013	321	\$ 0.42	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)								
Ontario Electricity Support Program (OESP)	\$ 0.0011	321	\$ 0.35	\$ 0.0011	321	\$ 0.35	\$ -	0.00%
TOU - Off Peak	\$ 0.0870	196	\$ 17.02	\$ 0.0870	196	\$ 17.02	\$ -	0.00%
TOU - Mid Peak	\$ 0.1320	51	\$ 6.75	\$ 0.1320	51	\$ 6.75	\$ -	0.00%
TOU - On Peak	\$ 0.1800	54	\$ 9.75	\$ 0.1800	54	\$ 9.75	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 60.70			\$ 63.31	\$ 2.61	4.29%
HST	13%		\$ 7.89	13%		\$ 8.23	\$ 0.34	4.29%
<b>Total Bill on TOU</b>			\$ 68.59			\$ 71.54	\$ 2.95	4.29%



Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	750	kWh
Demand	-	kW
Current Loss Factor	1.0663	
Proposed/Approved Loss Factor	1.0663	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 18.25	1	\$ 18.25	\$ 21.88	1	\$ 21.88	\$ 3.63	19.89%
Distribution Volumetric Rate	\$ 0.0106	750	\$ 7.95	\$ 0.0072	750	\$ 5.40	\$ (2.55)	-32.08%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 26.20			\$ 27.28	\$ 1.08	4.12%
Line Losses on Cost of Power	\$ 0.1130	50	\$ 5.62	\$ 0.1130	50	\$ 5.62	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
GA Rate Riders					750	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0018	750	\$ 1.35	\$ 0.0018	750	\$ 1.35	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 33.96			\$ 35.04	\$ 1.08	3.18%
RTSR - Network	\$ -	800	\$ -	\$ -	800	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	800	\$ -	\$ -	800	\$ -	\$ -	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 33.96			\$ 35.04	\$ 1.08	3.18%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	800	\$ 2.88	\$ 0.0036	800	\$ 2.88	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	800	\$ 1.04	\$ 0.0013	800	\$ 1.04	\$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
Ontario Electricity Support Program (OESP)	\$ 0.0011	800	\$ 0.88	\$ 0.0011	800	\$ 0.88	\$ -	0.00%
Non-RPP Retailer Avg. Price	\$ 0.1130	750	\$ 84.75	\$ 0.1130	750	\$ 84.75	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 123.51			\$ 124.59	\$ 1.08	0.87%
HST	13%		\$ 16.06	13%		\$ 16.20	\$ 0.14	0.87%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 139.56			\$ 140.78	\$ 1.22	0.87%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	301	kWh
Demand	-	kW
Current Loss Factor	1.0663	
Proposed/Approved Loss Factor	1.0663	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 18.25	1	\$ 18.25	\$ 21.88	1	\$ 21.88	\$ 3.63	19.89%
Distribution Volumetric Rate	\$ 0.0106	301	\$ 3.19	\$ 0.0072	301	\$ 2.17	\$ (1.02)	-32.08%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	301	\$ -	\$ -	301	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 21.44			\$ 24.05	\$ 2.61	12.16%
Line Losses on Cost of Power	\$ 0.1130	20	\$ 2.26	\$ 0.1130	20	\$ 2.26	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ -	301	\$ -	\$ -	301	\$ -	\$ -	
GA Rate Riders				\$ -	301	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0018	301	\$ 0.54	\$ 0.0018	301	\$ 0.54	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 25.03			\$ 27.63	\$ 2.61	10.41%
RTSR - Network	\$ -	321	\$ -	\$ -	321	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	321	\$ -	\$ -	321	\$ -	\$ -	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 25.03			\$ 27.63	\$ 2.61	10.41%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	321	\$ 1.16	\$ 0.0036	321	\$ 1.16	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	321	\$ 0.42	\$ 0.0013	321	\$ 0.42	\$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
Ontario Electricity Support Program (OESP)	\$ 0.0011	321	\$ 0.35	\$ 0.0011	321	\$ 0.35	\$ -	0.00%
Non-RPP Retailer Avg. Price	\$ 0.1130	301	\$ 34.01	\$ 0.1130	301	\$ 34.01	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 60.97			\$ 63.57	\$ 2.61	4.28%
HST	13%		\$ 7.93	13%		\$ 8.26	\$ 0.34	4.28%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 68.89			\$ 71.84	\$ 2.95	4.28%

## Appendix 4 - 2014 RRWF



Version 3.00

Utility Name	Cooperative Hydro Embrun Inc.
Service Territory	
Assigned EB Number	EB-2013-0122
Name and Title	Benoit Lamarche
Phone Number	613-443-5110
Email Address	

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*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.*



# Revenue Requirement Workform

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## Notes:

- (1) Pale green cells represent inputs
- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) ***Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.***
- (5) ***Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel***



# Revenue Requirement Workform

## Data Input <sup>(1)</sup>

	Initial Application	(2)	(6)	Per Board Decision
<b>1 Rate Base</b>				
Gross Fixed Assets (average)	\$3,733,350		\$ 3,733,350	\$3,733,350
Accumulated Depreciation (average)	(\$1,360,666)	(5)	(\$1,360,666)	(\$1,360,666)
<b>Allowance for Working Capital:</b>				
Controllable Expenses	\$556,279		\$ 556,279	\$556,279
Cost of Power	\$3,364,829		\$ 3,364,829	\$3,560,978
Working Capital Rate (%)	13.00%	(9)	13.00%	13.00% (9)
<b>2 Utility Income</b>				
Operating Revenues:				
Distribution Revenue at Current Rates	\$839,063			\$863,140
Distribution Revenue at Proposed Rates	\$838,798			\$858,144
<b>Other Revenue:</b>				
Specific Service Charges	\$14,200			\$14,200
Late Payment Charges	\$6,000			\$6,000
Other Distribution Revenue	\$10,081			\$10,081
Other Income and Deductions				
Total Revenue Offsets	\$30,281	(7)		\$30,281
<b>Operating Expenses:</b>				
OM+A Expenses	\$556,279		\$ 556,279	\$556,279
Depreciation/Amortization	\$132,429	(10)	\$ 132,429	\$132,429
Property taxes				
Other expenses				
<b>3 Taxes/PILs</b>				
Taxable Income:				
Adjustments required to arrive at taxable income	(\$60,231)	(3)		(\$60,231)
<b>Utility Income Taxes and Rates:</b>				
Income taxes (not grossed up)	\$6,712			\$7,540
Income taxes (grossed up)	\$7,943			\$8,922
Federal tax (%)	11.00%			11.00%
Provincial tax (%)	4.50%			4.50%
Income Tax Credits				
<b>4 Capitalization/Cost of Capital</b>				
<b>Capital Structure:</b>				
Long-term debt Capitalization Ratio (%)	56.0%			56.0%
Short-term debt Capitalization Ratio (%)	4.0%	(8)	(8)	4.0% (8)
Common Equity Capitalization Ratio (%)	40.0%			40.0%
Preferred Shares Capitalization Ratio (%)				
	100.0%			100.0%
<b>Cost of Capital</b>				
Long-term debt Cost Rate (%)	4.12%			4.88%
Short-term debt Cost Rate (%)	2.07%			2.11%
Common Equity Cost Rate (%)	8.98%			9.36%
Preferred Shares Cost Rate (%)				
Adjustment to Return on Rate Base associated with Deferred PP&E balance as a result of transition from CGAAP to MIFRS (\$)		(11)	(11)	(11)

### Notes:

- General** Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.
- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- (2) Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- (6) Select option from drop-down list by clicking on cell M10. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- (7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- (8) 4.0% unless an Applicant has proposed or been approved for another amount.
- (9) Starting with 2013, default Working Capital Allowance factor is 13% (of Cost of Power plus controllable expenses). Alternatively, WCA factor based on lead-lag study or approved WCA factor for another distributor, with supporting rationale.
- (10) Depreciation Expense should include the adjustment resulting from the amortization of the deferred PP&E balance as shown on Appendix 2-EA or Appendix 2-EB of the Chapter 2 Appendices to the Filing Requirements.
- (11) Adjustment should include the adjustment to the return on rate base associated with deferred PP&E balance as shown on Appendix 2-EA or Appendix 2-EB of the Chapter 2 Appendices to the Filing Requirements.



# Revenue Requirement Workform

## Rate Base and Working Capital

Rate Base										
Line No.	Particulars		Initial Application						Per Board Decision	
1	Gross Fixed Assets (average)	(3)	\$3,733,350		\$ -		\$3,733,350		\$ -	\$3,733,350
2	Accumulated Depreciation (average)	(3)	(\$1,360,666)		\$ -		(\$1,360,666)		\$ -	(\$1,360,666)
3	Net Fixed Assets (average)	(3)	\$2,372,683		\$ -		\$2,372,683		\$ -	\$2,372,683
4	Allowance for Working Capital	(1)	\$509,744		\$ -		\$509,744		\$25,499	\$535,243
5	Total Rate Base		\$2,882,427		\$ -		\$2,882,427		\$25,499	\$2,907,927

## Allowance for Working Capital - Derivation

(1)

6	Controllable Expenses	\$556,279	\$ -	\$556,279	\$ -	\$556,279
7	Cost of Power	\$3,364,829	\$ -	\$3,364,829	\$196,149	\$3,560,978
8	Working Capital Base	\$3,921,108	\$ -	\$3,921,108	\$196,149	\$4,117,257
9	Working Capital Rate % (2)	13.00%	0.00%	13.00%	0.00%	13.00%
10	Working Capital Allowance	\$509,744	\$ -	\$509,744	\$25,499	\$535,243

### Notes

(2)

Some Applicants may have a unique rate as a result of a lead-lag study. Default rate for 2013 cost of service applications is 13%.

(3)

Average of opening and closing balances for the year.



## Revenue Requirement Workform

### Utility Income

Line No.	Particulars	Initial Application				Per Board Decision	
1	<u>Operating Revenues:</u> Distribution Revenue (at Proposed Rates)	\$838,798	(\$838,798)	\$ -	\$858,144	\$858,144	
2	Other Revenue (1)	\$30,281	(\$30,281)	\$ -	\$30,281	\$30,281	
3	Total Operating Revenues	\$869,079	(\$869,079)	\$ -	\$888,425	\$888,425	
4	<u>Operating Expenses:</u> OM+A Expenses	\$556,279	\$ -	\$556,279	\$ -	\$556,279	
5	Depreciation/Amortization	\$132,429	\$ -	\$132,429	\$ -	\$132,429	
6	Property taxes	\$ -	\$ -	\$ -	\$ -	\$ -	
7	Capital taxes	\$ -	\$ -	\$ -	\$ -	\$ -	
8	Other expense	\$ -	\$ -	\$ -	\$ -	\$ -	
9	Subtotal (lines 4 to 8)	\$688,708	\$ -	\$688,708	\$ -	\$688,708	
10	Deemed Interest Expense	\$68,890	(\$68,890)	\$ -	\$81,922	\$81,922	
11	Total Expenses (lines 9 to 10)	\$757,598	(\$68,890)	\$688,708	\$81,922	\$770,630	
12	Adjustment to Return on Rate Base associated with Deferred PP&E balance as a result of transition from CGAAP to MIFRS	\$ -	\$ -	\$ -	\$ -	\$ -	
13	<u>Utility income before income taxes</u>	\$111,481	(\$800,189)	(\$688,708)	\$806,503	\$117,795	
14	Income taxes (grossed-up)	\$7,943	\$ -	\$7,943	\$979	\$8,922	
15	<u>Utility net income</u>	\$103,538	(\$800,189)	(\$696,651)	\$805,524	\$108,872	

### Notes

#### Other Revenues / Revenue Offsets

(1)	Specific Service Charges	\$14,200		\$ -	\$14,200
	Late Payment Charges	\$6,000		\$ -	\$6,000
	Other Distribution Revenue	\$10,081		\$ -	\$10,081
	Other Income and Deductions	\$ -		\$ -	\$ -
	Total Revenue Offsets	\$30,281	\$ -	\$ -	\$30,281





# Revenue Requirement Workform

## Taxes/PILs

Line No.	Particulars	Application				Per Board Decision	
<u>Determination of Taxable Income</u>							
1	Utility net income before taxes	\$103,537		\$ -		\$108,873	
2	Adjustments required to arrive at taxable utility income	(\$60,231)		\$ -		(\$60,231)	
3	Taxable income	\$43,306		\$ -		\$48,642	
<u>Calculation of Utility income Taxes</u>							
4	Income taxes	\$6,712		\$6,712		\$7,540	
6	Total taxes	\$6,712		\$6,712		\$7,540	
7	Gross-up of Income Taxes	\$1,231		\$1,231		\$1,383	
8	Grossed-up Income Taxes	\$7,943		\$7,943		\$8,922	
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$7,943		\$7,943		\$8,922	
10	Other tax Credits	\$ -		\$ -		\$ -	
<u>Tax Rates</u>							
11	Federal tax (%)	11.00%		11.00%		11.00%	
12	Provincial tax (%)	4.50%		4.50%		4.50%	
13	Total tax rate (%)	15.50%		15.50%		15.50%	

## Notes



# Revenue Requirement Workform

## Capitalization/Cost of Capital

Line No.	Particulars	Capitalization Ratio		Cost Rate		Return
		Initial Application				
		(%)	(\$)	(%)		(\$)
	Debt					
1	Long-term Debt	56.00%	\$1,614,159	4.12%		\$66,503
2	Short-term Debt	4.00%	\$115,297	2.07%		\$2,387
3	Total Debt	60.00%	\$1,729,456	3.98%		\$68,890
	Equity					
4	Common Equity	40.00%	\$1,152,971	8.98%		\$103,537
5	Preferred Shares	0.00%	\$ -	0.00%		\$ -
6	Total Equity	40.00%	\$1,152,971	8.98%		\$103,537
7	Total	100.00%	\$2,882,427	5.98%		\$172,427
		Per Board Decision				
		(%)	(\$)	(%)		(\$)
	Debt					
1	Long-term Debt	0.00%	\$ -	0.00%		\$ -
2	Short-term Debt	0.00%	\$ -	0.00%		\$ -
3	Total Debt	0.00%	\$ -	0.00%		\$ -
	Equity					
4	Common Equity	0.00%	\$ -	0.00%		\$ -
5	Preferred Shares	0.00%	\$ -	0.00%		\$ -
6	Total Equity	0.00%	\$ -	0.00%		\$ -
7	Total	0.00%	\$2,882,427	0.00%		\$ -
		Per Board Decision				
		(%)	(\$)	(%)		(\$)
	Debt					
8	Long-term Debt	56.00%	\$1,628,439	4.88%		\$79,468
9	Short-term Debt	4.00%	\$116,317	2.11%		\$2,454
10	Total Debt	60.00%	\$1,744,756	4.70%		\$81,922
	Equity					
11	Common Equity	40.00%	\$1,163,171	9.36%		\$108,873
12	Preferred Shares	0.00%	\$ -	0.00%		\$ -
13	Total Equity	40.00%	\$1,163,171	9.36%		\$108,873
14	Total	100.00%	\$2,907,927	6.56%		\$190,795

### Notes

(1) Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I



# Revenue Requirement Workform

## Revenue Deficiency/Sufficiency

Line No.	Particulars	Initial Application		Per Board Decision	
		At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1	Revenue Deficiency from Below		(\$266)		(\$161,403)
2	Distribution Revenue	\$839,063	\$839,064	\$839,063	\$1,000,201
3	Other Operating Revenue	\$30,281	\$30,281	\$ -	\$ -
	Offsets - net				
4	<b>Total Revenue</b>	<b>\$869,344</b>	<b>\$869,079</b>	<b>\$839,063</b>	<b>\$838,798</b>
5	Operating Expenses	\$688,708	\$688,708	\$688,708	\$688,708
6	Deemed Interest Expense	\$68,890	\$68,890	\$ -	\$ -
7		\$ - (2)	\$ -	\$ - (2)	\$ -
	Adjustment to Return on Rate Base associated with Deferred PP&E balance as a result of transition from CGAAP to MIFRS				
8	<b>Total Cost and Expenses</b>	<b>\$757,598</b>	<b>\$757,598</b>	<b>\$688,708</b>	<b>\$688,708</b>
9	<b>Utility Income Before Income Taxes</b>	<b>\$111,746</b>	<b>\$111,481</b>	<b>\$150,355</b>	<b>\$150,090</b>
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$60,231)	(\$60,231)	(\$60,231)	(\$60,231)
11	<b>Taxable Income</b>	<b>\$51,515</b>	<b>\$51,250</b>	<b>\$90,124</b>	<b>\$89,859</b>
12	Income Tax Rate	15.50%	15.50%	15.50%	15.50%
13		\$7,985	\$7,944	\$13,969	\$13,928
	<b>Income Tax on Taxable Income</b>				
14	<b>Income Tax Credits</b>	\$ -	\$ -	\$ -	\$ -
15	<b>Utility Net Income</b>	<b>\$103,761</b>	<b>\$103,538</b>	<b>\$136,386</b>	<b>(\$696,651)</b>
16	<b>Utility Rate Base</b>	<b>\$2,882,427</b>	<b>\$2,882,427</b>	<b>\$2,882,427</b>	<b>\$2,882,427</b>
17	Deemed Equity Portion of Rate Base	\$1,152,971	\$1,152,971	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	9.00%	8.98%	0.00%	0.00%
19	Target Return - Equity on Rate Base	8.98%	8.98%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	0.02%	0.00%	0.00%	0.00%
21	Indicated Rate of Return	5.99%	5.98%	4.73%	0.00%
22	Requested Rate of Return on Rate Base	5.98%	5.98%	0.00%	0.00%
23	Deficiency/Sufficiency in Rate of Return	0.01%	0.00%	4.73%	0.00%
24	Target Return on Equity	\$103,537	\$103,537	\$ -	\$ -
25	Revenue Deficiency/(Sufficiency)	(\$224)	\$1	(\$136,386)	\$ -
26	<b>Gross Revenue Deficiency/(Sufficiency)</b>	<b>(\$266) (1)</b>		<b>(\$161,403) (1)</b>	

### Notes:

- (1) Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)  
 (2) Treated as an adjustment pre-tax to avoid an impact on taxes/PILs and hence on revenue sufficiency deficiency



# Revenue Requirement Workform

## Revenue Requirement

Line No.	Particulars	Application				Per Board Decision			
1	OM&A Expenses	\$556,279		\$556,279		\$556,279			
2	Amortization/Depreciation	\$132,429		\$132,429		\$132,429			
3	Property Taxes	\$ -							
5	Income Taxes (Grossed up)	\$7,943		\$7,943		\$8,922			
6	Other Expenses	\$ -							
7	Return								
	Deemed Interest Expense	\$68,890		\$ -		\$81,922			
	Return on Deemed Equity	\$103,537		\$ -		\$108,873			
	Adjustment to Return on Rate Base associated with Deferred PP&E balance as a result of transition from CGAAP to MIFRS	\$ -		\$ -		\$ -			
8	<b>Service Revenue Requirement (before Revenues)</b>	<u>\$869,078</u>		<u>\$696,651</u>		<u>\$888,425</u>			
9	Revenue Offsets	<u>\$30,281</u>		<u>\$ -</u>		<u>\$30,281</u>			
10	<b>Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)</b>	<u>\$838,797</u>		<u>\$696,651</u>		<u>\$858,144</u>			
11	Distribution revenue	\$838,798		\$ -		\$858,144			
12	Other revenue	<u>\$30,281</u>		<u>\$ -</u>		<u>\$30,281</u>			
13	<b>Total revenue</b>	<u>\$869,079</u>		<u>\$ -</u>		<u>\$888,425</u>			
14	<b>Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)</b>	<u>\$1</u>	(1)	<u>(\$696,651)</u>	(1)	<u>(\$0)</u>	(1)		

### Notes

(1) Line 11 - Line 8