



# Cooperative Hydro Embrun Inc.

2022 IRM APPLICATION

EB-2021-0014

Submitted on: August 18, 2021

Coopérative Hydro Embrun  
821 Rue Notre Dame, Suite 200,  
Embrun, ON, K0A 1W1  
(613) 443-5110



August 18, 2021

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

**Attention: Ms. Christine Long, Board Secretary**  
**Regarding: 2022 IRM Application (EB-2021-0014)**

Dear Ms. Long,

Cooperative Hydro Embrun Inc. is pleased to submit to the Ontario Energy Board its 2022 IRM Application in searchable format. This application is being filed pursuant to the Board's e-Filing Services.

Hard copies of the application will be sent to the OEB's offices via within a week.

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

Yours truly,

[original signed]

Benoit Lamarche, General Manager  
Coopérative Hydro Embrun  
821 Rue Notre Dame, Suite 200,  
Embrun, ON, K0A 1W1  
(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, 2022.

## 1. INTRODUCTION

Cooperative Hydro Embrun Inc. hereby applies to the Ontario Energy Board (the "Board") for approval of its 2022 Distribution Rate Adjustments effective January 1, 2022. 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. The rates adjustment being applied for affects all classes of Cooperative Hydro Embrun's customer base; Residential, General Services both less than 50K and 50kW to 4999kW, Unmetered Scattered Load, Street Lights.

Cooperative Hydro Embrun has followed Chapter 3 of the Board's Filing Requirements for Transmission and Distribution Applications dated June 24, 2021 along with the Key References listed at section 3.1.1 of the Chapter 3 Incentive Rate-Setting Applications.

This application is supported by the following Excel models which are filed in conjunction with the Manager Summary.

- 2022 IRM Rate Generator
- 2022 GA Analysis Workform
- 2022 IRM Checklist

The following models are not application in this application and therefore are not being submitted.

- 1595
- Revenue to Cost Ratio Adjustment Model
- ICM/ACM Model
- LRAM

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, 2022, 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 2022 distribution rates. If the effective date does not coincide with the Board's determined implementation date for 2022 distribution rates and charges, Cooperative Hydro Embrun requests to be permitted to recover the incremental revenue from the effective date to the implementation date.

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

In the preparation of this application, Cooperative Hydro Embrun used the 2022 IRM Rate Generator issued on July 13, 2021. CHEI notes that it is not seeking the Price Cap Incentive Rate-Setting ("Price Cap IR") option to adjust its 2022 rates.

The Applicant is seeking an adjustment to its Retail Transmission Service Rates in accordance with Board Guideline G-2008-0001 - Electricity Distribution Retail Transmission Service Rates through the mechanism of the IRM Generator.

Cooperative Hydro Embrun also applies for the following matter;

- Continuance of the Specific Services charges and Loss Factors.
- Continuance of the MicroFit monthly charge.
- Continuance of the Smart Meter Entity charge.

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

- Rate Adders, Rate Riders, Low Voltage Service Charges, Retail Transmission Service Rates, Wholesale Market Service Rate, Rural and Remote Rate Protection Benefit and Charge, Standard Supply Service – Administrative Charge, MicroFIT Service Charge, Specific Service Charges, Transformation and Primary Metering Allowances, Smart Metering Entity Charge.
- CHEI requests that the annual adjustment not be applied to the base distribution rates.

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2 CHEI recognizes that the utility, its shareholder and all its customer classes will be  
3 affected by the outcome of the herein application.

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## 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 total approximately 2400 and is comprised of over 92% residential customers while 8% are General Service classes. The balance of the utility's customer base is comprised of Street Lights and Unmetered Scattered Load

Cooperative Hydro Embrun relies on approximately 37 km of circuits and delivers energy and power to approximately 2400 customers. Cooperative Hydro Embrun's circuits include approximately 18 km of overhead lines and 19 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, 2018.

### **3. CONTACT INFORMATION**

This application and all documents related to this application will be made available on CHEI's website at: [www.hydroembrun.ca](http://www.hydroembrun.ca). The application will also be available on the OEB's website at [www.ontarioenergyboard.ca](http://www.ontarioenergyboard.ca), under Board File Number EB-2021-0014. 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  
[www. hydroembrun.ca](http://www.hydroembrun.ca)

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

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 I with a Price Escalator of 2.00, Price Cap Index of 2.00% and a Stretch Factor Value of 0.00%.

Despite being allowed to apply a Price Escalator of 2.00, CHEI is not seeking a Price Cap Index adjustment in its 2022 rates.

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	0.00%
Revised Price Escalator	0.00%
Stretch Factor Value	0.00%
Productivity Factor	0.00%
Price Cap Index	0.00%

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 ADJUSTMENT

Cooperative Hydro Embrun is not proposing to adjust its revenue to cost ratios in this proceeding as its revenue to cost ratios were adjusted and set as part of the 2018 Cost of Service Application and required no further adjustments during the IRM periods between Cost of Services. As such, CHEI has not complete nor is filing a completed revenue-to-cost ratio adjustment work form.

CHEI confirms that its distribution rates are fully fixed.

**Table 2- Current vs Proposed Distribution Rates**

Rate Class	Current MFC	Current Volumetric Charge	Proposed MFC	Proposed Volumetric Charge
Residential	37.44		37.44	
GS<50 kW	22.34	0.0187	22.34	0.0187
GS>50 kW	194.7	4.1379	194.70	4.1379
USL	22.39	0.0153	22.39	0.0153
Street Lighting	2.36	21.4175	2.36	21.4175
MicroFit	10		10	

The 2022 proposed tariff sheet is presented at Appendix 2 of this application.

## 6. RTSR ADJUSTMENT

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.

The Loss Factor applied to the metered kWh is the actual Board-approved 2018 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 2022 IRM Model filed in conjunction with this application.

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**Table 3- Proposed RTSR**

Retail Transmission Rate - Network Service Rate			
Rate Description	Unit	Current RTSR- Network	Proposed RTSR- Network
Residential	\$/kWh	0.0071	0.0077
GS<50 kW	\$/kWh	0.0065	0.0070
GS>50 kW	\$/kWh	2.6229	2.8324
USL	\$/kW	0.0065	0.0070
Street Lighting	\$/kW	1.9782	2.1362

2

Retail Transmission Rate - Line and Transformation Connection Service Rate			
Rate Description	Unit	Current RTSR- Connection	Proposed RTSR- Connection
Residential	\$/kWh	0.0061	0.0065
GS<50 kW	\$/kWh	0.0052	0.0056
GS>50 kW	\$/kWh	2.1243	2.2699
USL	\$/kW	0.0052	0.0056
Street Lighting	\$/kW	1.6422	1.7547

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## 7. DEFERRAL AND VARIANCE ACCOUNT

### 7.1 REVIEW AND DISPOSITION OF GROUP 1 DVA

In its 2021 Decision and Order, the OEB recognized that the 2021 rate application represents two years of accumulated balances of 2018 and 2019. The OEB accepted CHEI's proposal to dispose of its 2019 Group 1 DVA balances on a final basis, including the 2017 balances that were initially disposed on an interim basis.

CHEI has completed the Board Staff's 2022 IRM Rate Generator – Tab 3 Continuity Schedule and the threshold test shows a claim per kWh of \$(0.0009).

CHEI confirms that the billing determinants, which originate from the most recent RRR filings are accurate.

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 pre-set disposition threshold is exceeded. Since the threshold was not met Cooperative Hydro Embrun is therefore not seeking disposal of its deferral and variance account in this proceeding. The Cooperative Hydro Embrun Group 1 total claim balance is \$(26,939) and is comprised of the following account balances. Details of these balances can be found in the 2022 IRM Model.

CHEI notes that there are no variances between the RRR and the balances calculated in that tab 3 of the model and therefore no explanation of variance between amounts proposed for disposition and amounts reported in RRR for each account is required

**Table 4- Deferral and Variance Account balances**

Group 1 Accounts		
LV Variance Account	1550	19,869
Smart Metering Entity Charge Variance Account	1551	(329)
RSVA - Wholesale Market Service Charge <sup>5</sup>	1580	(22,719)
Variance WMS – Sub-account CBR Class A5	1580	0
Variance WMS – Sub-account CBR Class B5	1580	147
RSVA - Retail Transmission Network Charge	1584	(3,566)
RSVA - Retail Transmission Connection Charge	1586	618
RSVA - Power <sup>4</sup>	1588	(40,401)
RSVA - Global Adjustment <sup>4</sup>	1589	19,442

Disposition and Recovery/Refund of Regulatory Balances (2015 and pre-2015) <sup>3</sup>	1595	0
Disposition and Recovery/Refund of Regulatory Balances (2016) <sup>3</sup>	1595	0
Disposition and Recovery/Refund of Regulatory Balances (2017) <sup>3</sup>	1595	0
Disposition and Recovery/Refund of Regulatory Balances (2018) <sup>3</sup>	1595	0
Disposition and Recovery/Refund of Regulatory Balances (2019) <sup>3</sup>	1595	0
Disposition and Recovery/Refund of Regulatory Balances (2020) <sup>3</sup>	1595	0
Disposition and Recovery/Refund of Regulatory Balances (2021) <sup>3</sup> <i>Not to be disposed of until two years after rate rider has expired and that balance has been audited. Refer to the Filing Requirements for disposition eligibility.</i>		0
<b>RSVA - Global Adjustment</b>		<b>19,442</b>
<b>Total Group 1 Balance excluding Account 1589 - Global Adjustment</b>		<b>(46,381)</b>
<b>Total Group 1 Balance</b>		<b>(26,939)</b>

CHEI confirms the following.

- Accounts 1595 – Disposition of Regulatory Balances (2015 and 2021 are not being disposed of in the claim above as the rate riders have not expired yet and the year end balances and have not been audited therefore, the audited balances will be disposed of in future years.
- CHEI confirms that no adjustment has been made to balances previously approved by the OEB on a final basis.
- GA rate riders calculated on an energy basis (kWh) (not applicable in this case)
- The proposed rate riders sought for recovery or refund of balances that are proposed for disposition over the default period of one year.
- CHEI confirms that it used the OEB model which creates a separate rate rider included in the delivery component of the bill that applies prospectively to Non-RPP Class B customers when clearing balances from the GA Variance Account.
- CHEI confirms that the GA is calculated on a kWh basis.

CHEI confirms that it has completed and filed along with this Manager Summary the GA workform.

## 7.2 WHOLESALE MARKET PARTICIPANT

CHEI does not have any wholesale market participant (WMP) which can be described as any entity that participates directly in any of the Independent Electricity System Operator (IESO) administered markets. These participants settle commodity and market-related charges with the IESO even if they are embedded in a distributor's distribution system. The rate rider has been calculated on Class B customers only. The billing determinant and all the rate riders for the GA

are calculated on an energy basis (kWh) regardless of the billing determinant used for distribution rates for the particular class

### 7.3 DISPOSITION OF ACCOUNT 1595

CHEI is not proposing to dispose of any 1595 balances as part of this application.

The 2016 audited balances which were approved as part of CHEI's 2018 Cost of Service Applications were approved on a 3-year basis and as such have not reached sunset plus 1 year. The 2017 audited balances which were approved as part of CHEI's 2019 IRM Application will reach its sunset at the end of 2019. The balances were audited in 2020 and one year has passed since the audit. However, CHEI is not seeking disposal because CHEI will review, with its auditor, the carrying charges calculated on all 1595 accounts in 2021. The request for disposal will be made on the next IRM with the other balances qualifying for disposition.

The 2018 and 2019 balances have reached the sunset and were included in the audit in the spring of 2021 however, 1 years has not passed since the audit.

**Table 5 – Disposition Status of Account 1595**

Year	Rate Application	Disposition Period	Sunset Reached	Rate Ride Sunset Date	Audited	Plus 1 year
2016	2018	3 yrs.	X	2020/12/31	✓	X
2017	2019	1 yr.	✓	2019/12/31	X	✓
2018	2020	1 yr.	X	2020/12/31	X	X
2019	2021	1 yr.	X	2021/12/31	X	X

All filing requirements related to 1595 including populating the 1595 Workform are not applicable in this case.

CHEI also confirms that there are no residual balances for vintage Account 1595 being disposed of and that all historical dispositions of 1595 have only been done once.

CHEI confirms that there are no material residual balances which require further analysis, consisting of separating the components of the residual balances by each applicable rate rider and by customer rate class.

As such, CHEI does not need to provide detailed explanations for any significant residual balances attributable to specific rate riders for each customer rate class including volume differences between forecast volumes (used to calculate the rate riders) as compared to actual volumes at which the rate riders were billed.

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#### **7.4 GLOBAL ADJUSTMENT**

Establishment of a separate rate rider included in the delivery component of the bill that would apply prospectively to Non-RPP Class B customers when clearing balances from the GA Variance Account

CHEI is not seeking disposition of its Global Adjustment balances. However has filed it's GA workform in accordance with the filing requirements which state that regardless of whether or not distributors are seeking disposition of Group 1 accounts in the current proceeding, all distributors are required to file the GA Analysis Workform in live Excel format and explain discrepancies.

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## 7.5 COMMODITY ACCOUNTS 1588 AND 1589

CHEI confirm that the billing determinant and all the rate riders for the GA are calculated on an energy basis (kWh) regardless of the billing determinant used for distribution rates for the particular class.

CHEI reviewed its process with the OEB in 2020 as CHEI was trying to implement the OEB's February 21, 2019 guidance. Upon OEB's review of CHEI process, it was concluded that the CHEI process was adequate to calculate the variations of accounts 1588 and 1589 following two minor changes. CHEI confirms that these changes were implemented and that the process is in par with OEB's recommendations.

CHEI confirms that its balances were approved on a final basis since its last IRM application in 2021.

I, Benoit Lamarche, certify that CHEI has a robust process and sufficient internal controls in place for the preparation, review, verification, and oversight of account balances being proposed for disposition to the best of its knowledge and understanding of the requirements and guidelines.

In accordance with the filing requirements which state that for each year that the accumulated balance of Account 1589 has not been disposed, regardless of whether or not distributors are seeking disposition of Group 1 accounts in the current proceeding, all distributors are required to file the GA Analysis Workform in live Excel format and explain discrepancies, CHEI confirms that it has filed the GA workform with the required years. The GA Calculations for 2020 are presented below.

**Table 6 - Global Adjustment and Rate Rider Calculations**

Default Rate Rider Recovery Period (in months)	12
Proposed Rate Rider Recovery Period (in months)	12

		Total Metered Non-RPP 2019 Consumption excluding WMP	Non-RPP Metered Consumption for Current Class B Customers (Non-RPP Consumption excluding WMP, Class A and Transition Customers' Consumption)	% of total kWh	Total GA \$ allocated to Current Class B Customers	GA Rate Rider	
		kWh	kWh				
RESIDENTIAL SERVICE CLASSIFICATION	kWh	166,074	166,074	4.9%	\$946	\$0.0057	kWh
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	763,380	763,380	22.4%	\$4,351	\$0.0057	kWh
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kWh	2,269,044	2,269,044	66.5%	\$12,932	\$0.0057	kWh
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	0	0	0.0%	\$0	\$0.0000	
STREET LIGHTING SERVICE CLASSIFICATION	kWh	212,836	212,836	6.2%	\$1,213	\$0.0057	kWh
	<b>Total</b>	3,411,334	3,411,334	100.0%	\$19,442		

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1 **7.6 GA WORKFORM**

2 2020 is presented at the next page

**Table 7- GA Workform 2020**

**Analysis of Expected GA Amount**  
**Year**

**2020**

Calendar Month	Non-RPP Class B Including Loss Factor Billed Consumption (kWh)	Deduct Previous Month Unbilled Loss Adjusted Consumption (kWh)	Add Current Month Unbilled Loss Adjusted Consumption (kWh)	Including Loss Adjusted Consumption, Adjusted for Unbilled (kWh)	GA Rate Billed (\$/kWh)	\$ Consumption at GA Rate Billed K = I*J	GA Actual Rate Paid (\$/kWh)	\$ Consumption at Actual Rate Paid M = I*L	Expected GA Price Variance (\$)
	F	G	H	I = F-G+H	J		L		N=M-K
January	407,556	-	-	407,556	0.08323	\$ 33,921	0.10232	\$ 41,701	\$ 7,780
February	380,837	-	-	380,837	0.12451	\$ 47,418	0.11331	\$ 43,153	\$ (4,265)
March	326,713	-	-	326,713	0.10432	\$ 34,083	0.11942	\$ 39,016	\$ 4,933
April	240,848	-	-	240,848	0.13707	\$ 33,013	0.11500	\$ 27,698	\$ (5,316)
May	224,144	-	-	224,144	0.09293	\$ 20,830	0.11500	\$ 25,777	\$ 4,947
June	210,608	-	-	210,608	0.11500	\$ 24,220	0.11500	\$ 24,220	\$ -
July	243,775	-	-	243,775	0.10305	\$ 25,121	0.09902	\$ 24,139	\$ (982)
August	234,591	-	-	234,591	0.10232	\$ 24,003	0.10348	\$ 24,275	\$ 272
September	276,948	-	-	276,948	0.11573	\$ 32,051	0.12176	\$ 33,721	\$ 1,670
October	349,055	-	-	349,055	0.14954	\$ 52,198	0.12806	\$ 44,700	\$ (7,498)
November	367,708	-	-	367,708	0.11670	\$ 42,912	0.11705	\$ 43,040	\$ 129
December	413,822	-	-	413,822	0.10704	\$ 44,296	0.10558	\$ 43,691	\$ (604)
<b>Net Change in Expected GA Balance in the Year (i.e. Transactions in the Year)</b>	<b>3,676,605</b>	<b>-</b>	<b>-</b>	<b>3,676,605</b>		<b>\$ 414,065</b>		<b>\$ 415,131</b>	<b>\$ 1,066</b>

Annual Non- RPP Class B Wholesale kWh *	Annual Non- RPP Class B Retail billed kWh (excludes April to June 2020)	Annual Unaccounted for Energy Loss kWh	Weighted Average GA Actual Rate Paid (\$/kWh)**	Expected GA Volume Variance (\$)
Q	P	Q=O-P	R	P= Q*R
3,008,465	3,001,005	7,460	0.11244	\$ 839

\*Equal to (AQEW - Class A + embedded generation kWh) (Non-RPP Class B retail kWh/Total retail Class B kWh). Note that the data for April to June 2020 should be excluded as the line loss volume variance would be reflected in the reconciling item below for #5 Impacts from GA deferral.

\*\*Equal to annual Non-RPP Class B \$ GA paid (i.e. non-RPP portion of CT 148 on IESO invoice) divided by Non-RPP Class B Wholesale kWh (as quantified in column Q in the table above). Note that the data for April to June 2020 should be excluded as the line loss volume variance would be reflected in the reconciling item below for #5 Impacts from GA deferral.

<b>Total Expected GA Variance</b>	<b>\$ 1,905</b>
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<b>Calculated Loss Factor</b>	1.0778
<b>Most Recent Approved Loss Factor for Secondary Metered Customer &lt; 5,000kW</b>	1.0749
<b>Difference</b>	<b>0.0029</b>

CHEI does not use the "unbilled" method on a monthly basis. CHEI bills once they have the actual amounts of con

b) Please provide an explanation in the text box below if the difference in loss factor is greater than 1%

Note 5 **Reconciling Items**

	Item	Amount	Explanation	Principal Adjustments	
				Principal Adjustment on DVA Continuity Schedule	If "no", please provide an explanation
	<b>Net Change in Principal Balance in the GL (i.e. Transactions in the Year)</b>	\$ 19,131			
1a	CT 148 True-up of GA Charges based on Actual Non-RPP Volumes - prior year				
1b	CT 148 True-up of GA Charges based on Actual Non-RPP Volumes - current year				
2a	Remove prior year end unbilled to actual revenue differences				
2b	Add current year end unbilled to actual revenue differences				
3a	Significant prior period billing adjustments recorded in current year				
3b	Significant current period billing adjustments recorded in other year(s)				
4	CT 2148 for prior period corrections				
5	Impacts of GA deferral	\$ (18,602)	Differences between actual rates of April to June 2020 and rates that was locked of 0.115\$. (240848 *	Yes	
6					
7					
8					
9					
10					
11					
	<b>Adjusted Net Change in Principal Balance in the GL</b>	\$ 529			
	<b>Net Change in Expected GA Balance in the Year Per Analysis</b>	\$ 1,905			
	<b>Unresolved Difference</b>	\$ (1,376)			
	<b>Unresolved Difference as % of Expected GA Payments to IESO</b>	<u>-0.3%</u>			

Note 6

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## 7.7 CAPACITY BASED RECOVERY

CHEI is not proposing to dispose of Account 1580 sub-account CBR Class B as its balances have not met the threshold.

As an embedded distributor, CHEI confirms that it is not charged CBR but in accordance with instructions from Board Staff in previous applications, CHEI does calculate its CBR balances and tracks in in its subaccount

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## 7.8 DISPOSITION OF LRAMVA

As a result of the Minister of Energy, Northern Development and Mines' directive on March 20, 2019, the IESO's Conservation First Framework (CFF) was revoked and all electricity CDM activity for 2019 and 2020 was centralized and administered by the IESO.

CHEI confirms that it disposed of its LRAM balances up to 2018 in its 2020 IRM application using the IESO's final release of its verified results. CHEI also confirms that it is not seeking any disposal of loss revenues related to 2019 conservation savings.

## **8. TAX CHANGE**

Cooperative Hydro Embrun has completed worksheets 8 of the IRM model which resulted in a tax change of \$269 from the tax rates embedded in its OEB 2018 Board Approved base rate. Since the amount is nil, no further action is required.

## 9. ICM/ACM/Z-FACTOR

Cooperative Hydro Embrun did not apply for an Advanced Incremental module in its last Cost of Service nor is applying for recovery of Incremental Capital or Z-Factor in this proceeding.

CHEI notes that the Minimum Filing Requirements related to ICM / ACM and Z-Factors are not applicable in CHEI's case.

## 10. REGULATORY RETURN ON EQUITY - OFF RAMP

CHEI's current distribution rates were rebased and approved by the OEB in 2018 and included an expected (deemed) regulatory return on equity of 9.00%. The OEB allows a distributor to earn within +/- 3% of the expected return on equity. The actual return on equity for 2020 is 11.35% which indicates an marginal underearning when compared to the Board Approved 2018 rate of return. the utility will maintain its profitability at the approved level going forward.

**Table 8- Return on Equity Table**

	2018BA	2020
Achieved ROE	9.00	11.35
Deemed ROE	9.00	9.00
Difference	0.00	2.35

CHEI notes that its earnings are not in excess of the dead band of 300 basis points. CHEI's actual ROE for 2018 shows an under-earning in comparison to the deemed ROE of 9% established as part of the utility's 2018 Cost of Service application.

## **11. CURRENT TARIFF SHEET**

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

## **12. PROPOSED TARIFF SHEET**

The proposed tariff sheets generated by the 2022 IRM Rate Generator are provided in the Appendix 2.

## 13.BILL IMPACT

The residential bill impact for the standard 750kWh is 3.66%. Detailed bill impacts for each rate class are provided in Appendix 3

With the exception of the GS<50, which uses the typical 2000 kWh/month, the other classes were calculated using a rounded monthly average consumption.

Rate Mitigation: CHEI confirms that none of the bill impacts for its classes exceed 10% as such no rate mitigation plan is required at this time.

**Table 9 – Summary of Bill Impacts**

<b>RATE CLASSES / CATEGORIES</b> <i>(eg: Residential TOU, Residential Retailer)</i>	<b>Units</b>	<b>Distr. Chgs</b>		<b>RR and DVA</b>		<b>Pass-Through</b>		<b>Total</b>	
		<b>A</b>		<b>B</b>		<b>C</b>		<b>Total Bill</b>	
		\$	%	\$	%	\$	%	\$	%
RESIDENTIAL - RPP	kWh	0	0	\$5.25	12.79%	\$6.06	11.72%	\$5.70	4.57%
GS LESS THAN 50 KW - RPP	kWh	0	0	\$13.80	20.35%	\$15.73	16.93%	\$14.81	5.10%
GS 50 to 4,999 kW - Non-RPP (Retailer)	kW	0	0	\$193.01	46.03%	\$221.42	27.71%	\$250.20	2.11%
UNMETERED SCATTERED LOAD - Non-RPP (Retailer)	kWh	0	0	\$2.76	21.95%	\$3.15	17.87%	\$3.56	2.48%
STREET LIGHTING - Non-RPP (Other)	kW	0	0	\$130.20	6.13%	\$143.19	6.23%	\$161.80	1.28%
RESIDENTIAL - Non-RPP (Retailer)	kWh	0	0	\$5.55	11.09%	\$6.36	10.47%	\$7.18	2.39%

## **14.CERTIFICATION OF EVIDENCE**

As General Manager of Cooperative Hydro Embrun Inc. I certify that, to the best of my knowledge, the evidence filed in the herein Incentive Rate-Setting Application is accurate, complete, and consistent with the requirements of the Chapter 3 Filing Requirements for Electricity Distribution Rate Applications as revised on June 24, 2021. I also confirm that internal controls and processes are in place for the preparation, review, verification and oversight of any account balances that are being requested for disposal.

Respectfully submitted,

*Original Signed by:*

Benoit Lamarche

Coopérative Hydro Embrun

821 Notre Dame Rue, Embrun, ON

(613) 443-5110

## 15.APPENDICES

Appendix 1	Current Tariff Sheet
Appendix 2	Proposed Tariff Sheet
Appendix 3	Bill Impacts
Appendix 4	2018 RRWF
Appendix 5	PDF of IRM Rate Generator
Appendix 6	PDF of GA Workform

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## **Appendix 1      2021 Current Tariff Sheet**

**Schedule A**

**To Decision and Rate Order**

**Tariff of Rates and Charges**

**OEB File No: EB-2020-0011**

**DATED: December 17, 2020**

# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2021

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

EB-2020-0011

## RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. All customers are single-phase. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

## APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of 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 Global Adjustment and the HST.

## MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	37.44
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.0033
Rate Rider for Disposition of Global Adjustment Account (2021) - effective until December 31, 2021		
Applicable only for Non-RPP Customers	\$/kWh	(0.0004)
Rate Rider for Disposition of Deferral/Variance Accounts (2021) - effective until December 31, 2021	\$/kWh	(0.0070)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0071
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0061

## MONTHLY RATES AND CHARGES - Regulatory Component

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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2021**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2020-0011

## GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non-residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of 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 Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	22.34
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0187
Low Voltage Service Rate	\$/kWh	0.0029
Rate Rider for Disposition of Global Adjustment Account (2021) - effective until December 31, 2021		
Applicable only for Non-RPP Customers	\$/kWh	(0.0004)
Rate Rider for Disposition of Deferral/Variance Accounts (2021) - effective until December 31, 2021	\$/kWh	(0.0069)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0065
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052

### MONTHLY RATES AND CHARGES - Regulatory Component

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

# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2021

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

EB-2020-0011

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

This classification applies to a non-residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

### 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.

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

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

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

### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	194.70
Distribution Volumetric Rate	\$/kW	4.1379
Low Voltage Service Rate	\$/kW	1.0823
Rate Rider for Disposition of Global Adjustment Account (2021) - effective until December 31, 2021		
Applicable only for Non-RPP Customers	\$/kWh	(0.0004)
Rate Rider for Disposition of Deferral/Variance Accounts (2021) - effective until December 31, 2021	\$/kW	(2.2476)
Retail Transmission Rate - Network Service Rate	\$/kW	2.6229
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1243

Issued - December 17, 2020

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2021**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2020-0011

**MONTHLY RATES AND CHARGES - Regulatory Component**

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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2021**  
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EB-2020-0011

## UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of 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 Global Adjustment and the HST.

### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per customer)	\$	22.39
Distribution Volumetric Rate	\$/kWh	0.0153
Low Voltage Service Rate	\$/kWh	0.0029
Rate Rider for Disposition of Deferral/Variance Accounts (2021) - effective until December 31, 2021	\$/kWh	(0.0069)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0065
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0052

### MONTHLY RATES AND CHARGES - Regulatory Component

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

# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2021

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EB-2020-0011

## STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

## APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of 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 Global Adjustment and the HST.

## MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	2.36
Distribution Volumetric Rate	\$/kW	21.4175
Low Voltage Service Rate	\$/kW	0.8367
Rate Rider for Disposition of Global Adjustment Account (2021) - effective until December 31, 2021 Applicable only for Non-RPP Customers	\$/kWh	(0.0004)
Rate Rider for Disposition of Deferral/Variance Accounts (2021) - effective until December 31, 2021	\$/kW	(2.4626)
Retail Transmission Rate - Network Service Rate	\$/kW	1.9782
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6422

## MONTHLY RATES AND CHARGES - Regulatory Component

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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2021**  
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EB-2020-0011

## **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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## **MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	10.00
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# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2021

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EB-2020-0011

## ALLOWANCES

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

## SPECIFIC SERVICE CHARGES

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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### 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 (effective annual rate 19.56% per annum or 0.04896% compounded daily rate)	%	1.50
Reconnection at meter - during regular hours	\$	25.00
Reconnection at meter - after regular hours	\$	50.00
Reconnection at pole - during regular hours	\$	185.00
Reconnection at pole - after hours	\$	415.00

### 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 - per pole/year (with the exception of wireless attachments) - Approved on an Interim Basis	\$	44.50

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
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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	\$	104.24
Monthly fixed charge, per retailer	\$	41.70
Monthly variable charge, per customer, per retailer	\$/cust.	1.04
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.62
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.62)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.52
Processing fee, per request, applied to the requesting party	\$	1.04
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.17
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per the Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.08

## 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	1.0749
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0650

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## **Appendix 2      2022 Proposed Tariff Sheet**

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2022**  
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EB-2021-0014

**RESIDENTIAL SERVICE CLASSIFICATION**

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. All customers are single-phase. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

**APPLICATION**

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**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	37.44
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.0033
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0077
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0065

**MONTHLY RATES AND CHARGES - Regulatory Component**

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

# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2022

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

EB-2021-0014

## GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non-residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	22.34
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0187
Low Voltage Service Rate	\$/kWh	0.0029
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0070
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056

### MONTHLY RATES AND CHARGES - Regulatory Component

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

# **Cooperative Hydro Embrun Inc.**

## **TARIFF OF RATES AND CHARGES**

### **Effective and Implementation Date January 1, 2022**

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

**EB-2021-0014**

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

This classification applies to a non-residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

### **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.

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

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

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

### **MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	194.70
Distribution Volumetric Rate	\$/kW	4.1379
Low Voltage Service Rate	\$/kW	1.0823
Retail Transmission Rate - Network Service Rate	\$/kW	2.8324
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.2699

### **MONTHLY RATES AND CHARGES - Regulatory Component**

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2022**  
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**EB-2021-0014**

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

# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2022

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

EB-2021-0014

## UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

## APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of 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 Global Adjustment and the HST.

## MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per customer)	\$	22.39
Distribution Volumetric Rate	\$/kWh	0.0153
Low Voltage Service Rate	\$/kWh	0.0029
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0070
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056

## MONTHLY RATES AND CHARGES - Regulatory Component

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

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2022**  
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EB-2021-0014

**STREET LIGHTING SERVICE CLASSIFICATION**

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

**APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of 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 Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge (per connection)	\$	2.36
Distribution Volumetric Rate	\$/kW	21.4175
Low Voltage Service Rate	\$/kW	0.8367
Retail Transmission Rate - Network Service Rate	\$/kW	2.1362
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.7547

**MONTHLY RATES AND CHARGES - Regulatory Component**

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

# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2022

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

EB-2021-0014

### 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.

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

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

### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	10.00
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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 & 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.

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

### Customer Administration

Arrears certificate	\$	15.00
Statement of account	\$	15.00
Duplicate invoices for previous billing	\$	15.00

# Cooperative Hydro Embrun Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2022

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**EB-2021-0014**

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 (effective annual rate 19.56% per annum or 0.04896% compounded daily rate)	%	1.50
Reconnection at meter - during regular hours	\$	25.00
Reconnection at meter - after regular hours	\$	50.00
Reconnection at pole - during regular hours	\$	185.00
Reconnection at pole - after hours	\$	415.00

#### **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 - per pole/year (with the exception of wireless attachments) - Approved on an Interim Basis	\$	45.48

## **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 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	\$	106.53
Monthly fixed charge, per retailer	\$	42.62
Monthly variable charge, per customer, per retailer	\$/cust.	1.06
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.63
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.63)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.53

**Cooperative Hydro Embrun Inc.**  
**TARIFF OF RATES AND CHARGES**  
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**EB-2021-0014**

Processing fee, per request, applied to the requesting party	\$	1.06
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	4.26
Notice of switch letter charge, per letter (unless the distributor has opted out of applying the charge as per the Ontario Energy Board's Decision and Order EB-2015-0304, issued on February 14, 2019)	\$	2.13

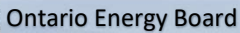
## **LOSS FACTORS**

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	1.0749
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.065

1

## **Appendix 3      Bill Impacts**



## Incentive Rate-setting Mechanism Rate Generator for 2022 Filers

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

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

**Note:**

1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of June 2021 or \$0.2689/kWh (IESO's Monthly Market Report for June 2021) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.

2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

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

Table 1

[illegible]

Table 2

[illegible]

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION		
RPP / Non-RPP:	RPP		
Consumption	750	kWh	
Demand	-	kW	
Current Loss Factor	1.0749		
Proposed/Approved Loss Factor	1.0749		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 37.44	1	\$ 37.44	\$ 37.44	1	\$ 37.44	\$ -	0.00%
Distribution Volumetric Rate	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 37.44			\$ 37.44	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.1034	56	\$ 5.81	\$ 0.1034	56	\$ 5.81	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ 0.0070	750	\$ (5.25)	\$ -	750	\$ -	\$ 5.25	-100.00%
CBR Class B Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
GA Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0033	750	\$ 2.48	\$ 0.0033	750	\$ 2.48	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 41.04			\$ 46.29	\$ 5.25	12.79%
RTSR - Network	\$ 0.0071	806	\$ 5.72	\$ 0.0077	806	\$ 6.21	\$ 0.48	8.45%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0061	806	\$ 4.92	\$ 0.0065	806	\$ 5.24	\$ 0.32	6.56%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 51.69			\$ 57.74	\$ 6.06	11.72%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	806	\$ 2.74	\$ 0.0034	806	\$ 2.74	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	806	\$ 0.40	\$ 0.0005	806	\$ 0.40	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0820	480	\$ 39.36	\$ 0.0820	480	\$ 39.36	\$ -	0.00%
TOU - Mid Peak	\$ 0.1130	135	\$ 15.26	\$ 0.1130	135	\$ 15.26	\$ -	0.00%
TOU - On Peak	\$ 0.1700	135	\$ 22.95	\$ 0.1700	135	\$ 22.95	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 132.65			\$ 138.70	\$ 6.06	4.57%
HST	13%		\$ 17.24	13%		\$ 18.03	\$ 0.79	4.57%
Ontario Electricity Rebate	18.9%		\$ (25.07)	18.9%		\$ (26.21)	\$ (1.14)	
<b>Total Bill on TOU</b>			\$ 124.82			\$ 130.52	\$ 5.70	4.57%

In the manager's summary, discuss the reason for the change.

In the manager's summary, discuss the reason for the change.

Customer Class:	GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION		
RPP / Non-RPP:	RPP		
Consumption	2,000	kWh	
Demand	-	kW	
Current Loss Factor	1.0749		
Proposed/Approved Loss Factor	1.0749		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 22.34	1	\$ 22.34	\$ 22.34	1	\$ 22.34	\$ -	0.00%
Distribution Volumetric Rate	\$ 0.0187	2000	\$ 37.40	\$ 0.0187	2000	\$ 37.40	\$ -	0.00%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	2000	\$ -	\$ -	2000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 59.74			\$ 59.74	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.1034	150	\$ 15.49	\$ 0.1034	150	\$ 15.49	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ 0.0069	2,000	\$ (13.80)	\$ -	2,000	\$ -	\$ 13.80	-100.00%
CBR Class B Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	
GA Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0029	2,000	\$ 5.80	\$ 0.0029	2,000	\$ 5.80	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 67.80			\$ 81.60	\$ 13.80	20.35%
RTSR - Network	\$ 0.0065	2,150	\$ 13.97	\$ 0.0070	2,150	\$ 15.05	\$ 1.07	7.69%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0052	2,150	\$ 11.18	\$ 0.0056	2,150	\$ 12.04	\$ 0.86	7.69%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 92.95			\$ 108.69	\$ 15.73	16.93%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	2,150	\$ 7.31	\$ 0.0034	2,150	\$ 7.31	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	2,150	\$ 1.07	\$ 0.0005	2,150	\$ 1.07	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0820	1,280	\$ 104.96	\$ 0.0820	1,280	\$ 104.96	\$ -	0.00%
TOU - Mid Peak	\$ 0.1130	360	\$ 40.68	\$ 0.1130	360	\$ 40.68	\$ -	0.00%
TOU - On Peak	\$ 0.1700	360	\$ 61.20	\$ 0.1700	360	\$ 61.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 308.43			\$ 324.16	\$ 15.73	5.10%
HST	13%		\$ 40.10	13%		\$ 42.14	\$ 2.05	5.10%
Ontario Electricity Rebate	18.9%		\$ (58.29)	18.9%		\$ (61.27)	\$ (2.97)	
<b>Total Bill on TOU</b>			\$ 290.23			\$ 305.04	\$ 14.81	5.10%

In the manager's summary, discuss the reason for the change.

In the manager's summary, discuss the reason for the change.

Customer Class:	GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	33,000	kWh
Demand	80	kW
Current Loss Factor	1.0749	
Proposed/Approved Loss Factor	1.0749	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 194.70	1	\$ 194.70	\$ 194.70	1	\$ 194.70	\$ -	0.00%
Distribution Volumetric Rate	\$ 4.1379	80	\$ 331.03	\$ 4.1379	80	\$ 331.03	\$ -	0.00%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 525.73</b>			<b>\$ 525.73</b>	<b>\$ -</b>	<b>0.00%</b>
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	-\$ 2.2476	80	\$ (179.81)	\$ -	80	\$ -	\$ 179.81	-100.00%
CBR Class B Rate Riders	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	
GA Rate Riders	-\$ 0.0004	33,000	\$ (13.20)	\$ -	33,000	\$ -	\$ 13.20	-100.00%
Low Voltage Service Charge	\$ 1.0823	80	\$ 86.58	\$ 1.0823	80	\$ 86.58	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 419.31</b>			<b>\$ 612.32</b>	<b>\$ 193.01</b>	<b>46.03%</b>
RTSR - Network	\$ 2.6229	80	\$ 209.83	\$ 2.8324	80	\$ 226.59	\$ 16.76	7.99%
RTSR - Connection and/or Line and Transformation Connection	\$ 2.1243	80	\$ 169.94	\$ 2.2699	80	\$ 181.59	\$ 11.65	6.85%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 799.08</b>			<b>\$ 1,020.50</b>	<b>\$ 221.42</b>	<b>27.71%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	35,472	\$ 120.60	\$ 0.0034	35,472	\$ 120.60	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	35,472	\$ 17.74	\$ 0.0005	35,472	\$ 17.74	\$ -	0.00%
Standard Supply Service Charge								
Non-RPP Retailer Avg. Price	\$ 0.2689	35,472	\$ 9,538.34	\$ 0.2689	35,472	\$ 9,538.34	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			<b>\$ 10,475.76</b>			<b>\$ 10,697.18</b>	<b>\$ 221.42</b>	<b>2.11%</b>
HST	13%		\$ 1,361.85	13%		\$ 1,390.63	\$ 28.78	2.11%
Ontario Electricity Rebate	18.9%		\$ -	18.9%		\$ -	\$ -	
<b>Total Bill on Non-RPP Avg. Price</b>			<b>\$ 11,837.61</b>			<b>\$ 12,087.81</b>	<b>\$ 250.20</b>	<b>2.11%</b>

In the manager's summary, discuss the reason for the change.

In the manager's summary, discuss the reason for the change.

Customer Class:	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
RPP / Non-RPP:	Non-RPP (Retailer)		
Consumption	400	kWh	
Demand	-	kW	
Current Loss Factor	1.0749		
Proposed/Approved Loss Factor	1.0749		

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 22.39		\$ -	\$ 22.39		\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0153	400	\$ 6.12	\$ 0.0153	400	\$ 6.12	\$ -	0.00%
Fixed Rate Riders	\$ -		\$ -	\$ -		\$ -	\$ -	
Volumetric Rate Riders	\$ -	400	\$ -	\$ -	400	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 6.12			\$ 6.12	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.2689	30	\$ 8.06	\$ 0.2689	30	\$ 8.06	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	-\$ 0.0069	400	\$ (2.76)	\$ -	400	\$ -	\$ 2.76	-100.00%
CBR Class B Rate Riders	\$ -	400	\$ -	\$ -	400	\$ -	\$ -	
GA Rate Riders	\$ -	400	\$ -	\$ -	400	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0029	400	\$ 1.16	\$ 0.0029	400	\$ 1.16	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -		\$ -	\$ -		\$ -	\$ -	
Additional Fixed Rate Riders	\$ -		\$ -	\$ -		\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	400	\$ -	\$ -	400	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 12.58			\$ 15.34	\$ 2.76	21.95%
RTSR - Network	\$ 0.0065	430	\$ 2.79	\$ 0.0070	430	\$ 3.01	\$ 0.21	7.69%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0052	430	\$ 2.24	\$ 0.0056	430	\$ 2.41	\$ 0.17	7.69%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 17.61			\$ 20.75	\$ 3.15	17.87%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	430	\$ 1.46	\$ 0.0034	430	\$ 1.46	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	430	\$ 0.21	\$ 0.0005	430	\$ 0.21	\$ -	0.00%
Standard Supply Service Charge								
Non-RPP Retailer Avg. Price	\$ 0.2689	400	\$ 107.56	\$ 0.2689	400	\$ 107.56	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 126.84			\$ 129.99	\$ 3.15	2.48%
HST	13%		\$ 16.49	13%		\$ 16.90	\$ 0.41	2.48%
Ontario Electricity Rebate	18.9%		\$ (23.97)	18.9%		\$ (24.57)		
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 143.33			\$ 146.89	\$ 3.56	2.48%

In the manager's summary, discuss the reason for the change.

In the manager's summary, discuss the reason for the change.

Customer Class:	STREET LIGHTING SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Other)	
Consumption	30,000	kWh
Demand	48	kW
Current Loss Factor	1.0749	
Proposed/Approved Loss Factor	1.0749	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 2.36	503	\$ 1,187.08	\$ 2.36	503	\$ 1,187.08	\$ -	0.00%
Distribution Volumetric Rate	\$ 21.4175	48	\$ 1,028.04	\$ 21.4175	48	\$ 1,028.04	\$ -	0.00%
Fixed Rate Riders	\$ -	503	\$ -	\$ -	503	\$ -	\$ -	
Volumetric Rate Riders	\$ -	48	\$ -	\$ -	48	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 2,215.12</b>			<b>\$ 2,215.12</b>	<b>\$ -</b>	<b>0.00%</b>
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	-\$ 2.4626	48	\$ (118.20)	\$ -	48	\$ -	\$ 118.20	-100.00%
CBR Class B Rate Riders	\$ -	48	\$ -	\$ -	48	\$ -	\$ -	
GA Rate Riders	-\$ 0.0004	30,000	\$ (12.00)	\$ -	30,000	\$ -	\$ 12.00	-100.00%
Low Voltage Service Charge	\$ 0.8367	48	\$ 40.16	\$ 0.8367	48	\$ 40.16	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	503	\$ -	\$ -	503	\$ -	\$ -	
Additional Fixed Rate Riders	\$ -	503	\$ -	\$ -	503	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	48	\$ -	\$ -	48	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 2,125.08</b>			<b>\$ 2,255.28</b>	<b>\$ 130.20</b>	<b>6.13%</b>
RTSR - Network	\$ 1.9782	48	\$ 94.95	\$ 2.1362	48	\$ 102.54	\$ 7.58	7.99%
RTSR - Connection and/or Line and Transformation Connection	\$ 1.6422	48	\$ 78.83	\$ 1.7547	48	\$ 84.23	\$ 5.40	6.85%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 2,298.86</b>			<b>\$ 2,442.04</b>	<b>\$ 143.19</b>	<b>6.23%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	32,247	\$ 109.64	\$ 0.0034	32,247	\$ 109.64	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	32,247	\$ 16.12	\$ 0.0005	32,247	\$ 16.12	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	503	\$ 125.75	\$ 0.25	503	\$ 125.75	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.2689	32,247	\$ 8,671.22	\$ 0.2689	32,247	\$ 8,671.22	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 11,221.59</b>			<b>\$ 11,364.78</b>	<b>\$ 143.19</b>	<b>1.28%</b>
HST	13%		\$ 1,458.81	13%		\$ 1,477.42	\$ 18.61	1.28%
Ontario Electricity Rebate	18.9%		\$ -	18.9%		\$ -	\$ -	
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 12,680.39</b>			<b>\$ 12,842.20</b>	<b>\$ 161.80</b>	<b>1.28%</b>

In the manager's summary, discuss the reasons for the change in the RTSR - Network rate.

In the manager's summary, discuss the reasons for the change in the RTSR - Connection and/or Line and Transformation Connection rate.

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	750	kWh
Demand	-	kW
Current Loss Factor	1.0749	
Proposed/Approved Loss Factor	1.0749	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 37.44	1	\$ 37.44	\$ 37.44	1	\$ 37.44	\$ -	0.00%
Distribution Volumetric Rate	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 37.44			\$ 37.44	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.2689	56	\$ 15.11	\$ 0.2689	56	\$ 15.11	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ 0.0070	750	\$ (5.25)	\$ -	750	\$ -	\$ 5.25	-100.00%
CBR Class B Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
GA Rate Riders	\$ 0.0004	750	\$ (0.30)	\$ -	750	\$ -	\$ 0.30	-100.00%
Low Voltage Service Charge	\$ 0.0033	750	\$ 2.48	\$ 0.0033	750	\$ 2.48	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 50.04			\$ 55.59	\$ 5.55	11.09%
RTSR - Network	\$ 0.0071	806	\$ 5.72	\$ 0.0077	806	\$ 6.21	\$ 0.48	8.45%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0061	806	\$ 4.92	\$ 0.0065	806	\$ 5.24	\$ 0.32	6.56%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 60.68			\$ 67.04	\$ 6.36	10.47%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	806	\$ 2.74	\$ 0.0034	806	\$ 2.74	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	806	\$ 0.40	\$ 0.0005	806	\$ 0.40	\$ -	0.00%
Standard Supply Service Charge								
Non-RPP Retailer Avg. Price	\$ 0.2689	750	\$ 201.68	\$ 0.2689	750	\$ 201.68	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 265.50			\$ 271.86	\$ 6.36	2.39%
HST	13%		\$ 34.52	13%		\$ 35.34	\$ 0.83	2.39%
Ontario Electricity Rebate	18.9%		\$ (50.18)	18.9%		\$ (51.38)		
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 300.02			\$ 307.20	\$ 7.18	2.39%

In the manager's summary, discuss the reasons for the change in the distribution rate.

In the manager's summary, discuss the reasons for the change in the delivery rate.

1                                    **Appendix 4        2018 RRWF**

2

3



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

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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 format.***



# Revenue Requirement Workform (RRWF) for 2017 Filers

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

	Initial Application	(2)	Adjustments	Interrogatory Responses	(6)	Adjustments	Per Board Decision
<b>1</b>	<b><u>Rate Base</u></b>						
	Gross Fixed Assets (average)	\$6,216,043		\$ 6,216,043		\$28,584	\$6,244,627
	Accumulated Depreciation (average)	(\$1,881,045)	(5)	(\$1,881,045)		\$1,255	(\$1,879,790)
	<b><u>Allowance for Working Capital:</u></b>						
	Controllable Expenses	\$721,971		\$ 721,971		(\$40,000)	\$681,971
	Cost of Power	\$4,209,043	(\$29,157)	\$ 4,179,886		(\$654,259)	\$3,525,627
	Working Capital Rate (%)	7.50%	(9)	7.50%	(9)		7.50% (9)
<b>2</b>	<b><u>Utility Income</u></b>						
	Operating Revenues:						
	Distribution Revenue at Current Rates	\$909,378	(\$12,708)	\$896,670		\$3,690	\$900,360
	Distribution Revenue at Proposed Rates	\$1,107,885	(\$991)	\$1,106,895		(\$39,559)	\$1,067,336
	<b><u>Other Revenue:</u></b>						
	Specific Service Charges	\$20,041	\$869	\$20,910		\$0	\$20,910
	Late Payment Charges	\$11,400	\$0	\$11,400		\$0	\$11,400
	Other Distribution Revenue	(\$10,152)	\$0	(\$10,152)		\$0	(\$10,152)
	Other Income and Deductions	\$7,500	\$0	\$7,500		\$0	\$7,500
	Total Revenue Offsets	\$29,789	(7) (\$131)	\$29,658		\$0	\$29,658
	<b><u>Operating Expenses:</u></b>						
	OM+A Expenses	\$721,971		\$ 721,971		(\$40,000)	\$681,971
	Depreciation/Amortization	\$165,121		\$ 165,121		(\$2,966)	\$162,155
	Property taxes						
	Other expenses						
<b>3</b>	<b><u>Taxes/PILs</u></b>						
	Taxable Income:						
		(\$138,995)	(3)	(\$138,995)			(\$141,277)
	Adjustments required to arrive at taxable income						
	<b><u>Utility Income Taxes and Rates:</u></b>						
	Income taxes (not grossed up)	\$3,936		\$3,929			\$3,465
	Income taxes (grossed up)	\$4,631		\$4,623			\$4,076
	Federal tax (%)	10.50%		10.50%			10.50%
	Provincial tax (%)	4.50%		4.50%			4.50%
	Income Tax Credits						
<b>4</b>	<b><u>Capitalization/Cost of Capital</u></b>						
	<b><u>Capital Structure:</u></b>						
	Long-term debt Capitalization Ratio (%)	56.0%		56.0%			56.0%
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	4.0%	(8)		4.0%
	Common Equity Capitalization Ratio (%)	40.0%		40.0%			40.0%
	Preferred Shares Capitalization Ratio (%)						
		100.0%		100.0%			100.0%
	<b><u>Cost of Capital</u></b>						
	Long-term debt Cost Rate (%)	2.90%		2.90%			2.90%
	Short-term debt Cost Rate (%)	1.76%		1.76%			2.29%
	Common Equity Cost Rate (%)	8.78%		8.78%			9.00%
	Preferred Shares Cost Rate (%)						

**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) The default Working Capital Allowance factor is **7.5%** (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Rate Base and Working Capital

Rate Base						
Line No.	Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) <sup>(2)</sup>	\$6,216,043	\$ -	\$6,216,043	\$28,584	\$6,244,627
2	Accumulated Depreciation (average) <sup>(2)</sup>	(\$1,881,045)	\$ -	(\$1,881,045)	\$1,255	(\$1,879,790)
3	Net Fixed Assets (average) <sup>(2)</sup>	\$4,334,999	\$ -	\$4,334,999	\$29,839	\$4,364,838
4	Allowance for Working Capital <sup>(1)</sup>	\$369,826	(\$2,187)	\$367,639	(\$52,069)	\$315,570
5	<b>Total Rate Base</b>	<b>\$4,704,825</b>	<b>(\$2,187)</b>	<b>\$4,702,638</b>	<b>(\$22,230)</b>	<b>\$4,680,408</b>

### (1) Allowance for Working Capital - Derivation

6	Controllable Expenses	\$721,971	\$ -	\$721,971	(\$40,000)	\$681,971
7	Cost of Power	\$4,209,043	(\$29,157)	\$4,179,886	(\$654,259)	\$3,525,627
8	Working Capital Base	\$4,931,014	(\$29,157)	\$4,901,857	(\$694,259)	\$4,207,598
9	Working Capital Rate % <sup>(1)</sup>	7.50%	0.00%	7.50%	0.00%	7.50%
10	Working Capital Allowance	\$369,826	(\$2,187)	\$367,639	(\$52,069)	\$315,570

#### Notes

(1) Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2017 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

(2) Average of opening and closing balances for the year.





Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Utility Income

Line No.	Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Per Board Decision
	<b>Operating Revenues:</b>					
1	Distribution Revenue (at Proposed Rates)	\$1,107,885	(\$991)	\$1,106,895	(\$39,559)	\$1,067,336
2	Other Revenue <sup>(1)</sup>	\$28,789	\$869	\$29,658	\$ -	\$29,658
3	Total Operating Revenues	\$1,136,675	(\$122)	\$1,136,553	(\$39,559)	\$1,096,994
	<b>Operating Expenses:</b>					
4	OM+A Expenses	\$721,971	\$ -	\$721,971	(\$40,000)	\$681,971
5	Depreciation/Amortization	\$165,121	\$ -	\$165,121	(\$2,966)	\$162,155
6	Property taxes	\$ -	\$ -		\$ -	
7	Capital taxes	\$ -	\$ -	\$ -	\$ -	\$ -
8	Other expense	\$ -	\$ -		\$ -	
9	Subtotal (lines 4 to 8)	\$887,092	\$ -	\$887,092	(\$42,966)	\$844,126
10	Deemed Interest Expense	\$79,719	(\$37)	\$79,681	\$616	\$80,297
11	Total Expenses (lines 9 to 10)	\$966,811	(\$37)	\$966,774	(\$42,350)	\$924,423
12	Utility income before income taxes	\$169,864	(\$85)	\$169,779	\$2,792	\$172,571
13	Income taxes (grossed-up)	\$4,631	(\$8)	\$4,623	(\$546)	\$4,076
14	Utility net income	\$165,233	(\$77)	\$165,157	\$3,338	\$168,495

## Notes

### Other Revenues / Revenue Offsets

(1)	Specific Service Charges	\$20,041	\$869	\$20,910	\$ -	\$20,910
	Late Payment Charges	\$11,400	\$ -	\$11,400	\$ -	\$11,400
	Other Distribution Revenue	(\$10,152)	\$ -	(\$10,152)	\$ -	(\$10,152)
	Other Income and Deductions	\$7,500	\$ -	\$7,500	\$ -	\$7,500
	Total Revenue Offsets	\$28,789	\$869	\$29,658	\$ -	\$29,658



# Revenue Requirement Workform (RRWF) for 2017 Filers

## Taxes/PILs

Line No.	Particulars	Application	Interrogatory Responses	Per Board Decision
<b><u>Determination of Taxable Income</u></b>				
1	Utility net income before taxes	\$165,233	\$165,157	\$168,495
2	Adjustments required to arrive at taxable utility income	(\$138,995)	(\$138,995)	(\$141,277)
3	Taxable income	\$26,239	\$26,162	\$27,218
<b><u>Calculation of Utility income Taxes</u></b>				
4	Income taxes	\$3,936	\$3,929	\$3,465
6	Total taxes	\$3,936	\$3,929	\$3,465
7	Gross-up of Income Taxes	\$695	\$693	\$611
8	Grossed-up Income Taxes	\$4,631	\$4,623	\$4,076
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$4,631	\$4,623	\$4,076
10	Other tax Credits	\$ -	\$ -	\$ -
<b><u>Tax Rates</u></b>				
11	Federal tax (%)	10.50%	10.50%	10.50%
12	Provincial tax (%)	4.50%	4.50%	4.50%
13	Total tax rate (%)	15.00%	15.00%	15.00%

## Notes



# Revenue Requirement Workform (RRWF) for 2017 Filers

## Capitalization/Cost of Capital

Line No.	Particulars	Capitalization Ratio		Cost Rate	Return
		(%)	(\$)	(%)	(\$)
<b>Initial Application</b>					
	<b>Debt</b>				
1	Long-term Debt	56.00%	\$2,634,702	2.90%	\$76,406
2	Short-term Debt	4.00%	\$188,193	1.76%	\$3,312
3	<b>Total Debt</b>	60.00%	\$2,822,895	2.82%	\$79,719
	<b>Equity</b>				
4	Common Equity	40.00%	\$1,881,930	8.78%	\$165,233
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	<b>Total Equity</b>	40.00%	\$1,881,930	8.78%	\$165,233
7	<b>Total</b>	100.00%	\$4,704,825	5.21%	\$244,952
<b>Interrogatory Responses</b>					
	<b>Debt</b>				
1	Long-term Debt	56.00%	\$2,633,477	2.90%	\$76,371
2	Short-term Debt	4.00%	\$188,106	1.76%	\$3,311
3	<b>Total Debt</b>	60.00%	\$2,821,583	2.82%	\$79,681
	<b>Equity</b>				
4	Common Equity	40.00%	\$1,881,055	8.78%	\$165,157
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	<b>Total Equity</b>	40.00%	\$1,881,055	8.78%	\$165,157
7	<b>Total</b>	100.00%	\$4,702,638	5.21%	\$244,838
<b>Per Board Decision</b>					
	<b>Debt</b>				
8	Long-term Debt	56.00%	\$2,621,028	2.90%	\$76,010
9	Short-term Debt	4.00%	\$187,216	2.29%	\$4,287
10	<b>Total Debt</b>	60.00%	\$2,808,245	2.86%	\$80,297
	<b>Equity</b>				
11	Common Equity	40.00%	\$1,872,163	9.00%	\$168,495
12	Preferred Shares	0.00%	\$ -	0.00%	\$ -
13	<b>Total Equity</b>	40.00%	\$1,872,163	9.00%	\$168,495
14	<b>Total</b>	100.00%	\$4,680,408	5.32%	\$248,792

### Notes



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Revenue Deficiency/Sufficiency

Line No.	Particulars	Initial Application		Interrogatory Responses		Per Board Decision	
		At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1	Revenue Deficiency from Below		\$228,090		\$241,884		\$191,647
2	Distribution Revenue	\$909,378	\$879,795	\$896,670	\$865,010	\$900,360	\$875,689
3	Other Operating Revenue	\$28,789	\$28,789	\$29,658	\$29,658	\$29,658	\$29,658
4	<b>Total Revenue</b>	<u>\$938,168</u>	<u>\$1,136,675</u>	<u>\$926,329</u>	<u>\$1,136,553</u>	<u>\$930,018</u>	<u>\$1,096,994</u>
5	Operating Expenses	\$887,092	\$887,092	\$887,092	\$887,092	\$844,126	\$844,126
6	Deemed Interest Expense	\$79,719	\$79,719	\$79,681	\$79,681	\$80,297	\$80,297
8	<b>Total Cost and Expenses</b>	<u>\$966,811</u>	<u>\$966,811</u>	<u>\$966,774</u>	<u>\$966,774</u>	<u>\$924,423</u>	<u>\$924,423</u>
9	<b>Utility Income Before Income Taxes</b>	<u>(\$28,643)</u>	\$169,864	<u>(\$40,445)</u>	\$169,779	\$5,595	\$172,571
10	Tax Adjustments to Accounting Income per 2013 PILs model	<u>(\$138,995)</u>	<u>(\$138,995)</u>	<u>(\$138,995)</u>	<u>(\$138,995)</u>	<u>(\$141,277)</u>	<u>(\$141,277)</u>
11	<b>Taxable Income</b>	<u>(\$167,638)</u>	\$30,869	<u>(\$179,440)</u>	\$30,785	<u>(\$135,682)</u>	\$31,294
12	Income Tax Rate	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
13	<b>Income Tax on Taxable Income</b>	\$ -	\$4,630	\$ -	\$4,618	\$ -	\$4,694
14	<b>Income Tax Credits</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	<b>Utility Net Income</b>	<u>(\$28,643)</u>	<u>\$165,233</u>	<u>(\$40,445)</u>	<u>\$165,157</u>	<u>\$5,595</u>	<u>\$168,495</u>
16	<b>Utility Rate Base</b>	\$4,704,825	\$4,704,825	\$4,702,638	\$4,702,638	\$4,680,408	\$4,680,408
17	Deemed Equity Portion of Rate Base	\$1,881,930	\$1,881,930	\$1,881,055	\$1,881,055	\$1,872,163	\$1,872,163
18	Income/(Equity Portion of Rate Base)	-1.52%	8.78%	-2.15%	8.78%	0.30%	9.00%
19	Target Return - Equity on Rate Base	8.78%	8.78%	8.78%	8.78%	9.00%	9.00%
20	Deficiency/Sufficiency in Return on Equity	-10.30%	0.00%	-10.93%	0.00%	-8.70%	0.00%
21	Indicated Rate of Return	1.09%	5.21%	0.83%	5.21%	1.84%	5.32%
22	Requested Rate of Return on Rate Base	5.21%	5.21%	5.21%	5.21%	5.32%	5.32%
23	Deficiency/Sufficiency in Rate of Return	-4.12%	0.00%	-4.37%	0.00%	-3.48%	0.00%
24	Target Return on Equity	\$165,233	\$165,233	\$165,157	\$165,157	\$168,495	\$168,495
25	Revenue Deficiency/(Sufficiency)	\$193,876	(\$0)	\$205,602	(\$0)	\$162,900	\$0
26	<b>Gross Revenue Deficiency/(Sufficiency)</b>	<u>\$228,090 <sup>(1)</sup></u>		<u>\$241,884 <sup>(1)</sup></u>		<u>\$191,647 <sup>(1)</sup></u>	

### Notes:

<sup>(1)</sup> Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Revenue Requirement

Line No.	Particulars	Application	Interrogatory Responses	Per Board Decision
1	OM&A Expenses	\$721,971	\$721,971	\$681,971
2	Amortization/Depreciation	\$165,121	\$165,121	\$162,155
3	Property Taxes	\$ -		
5	Income Taxes (Grossed up)	\$4,631	\$4,623	\$4,076
6	Other Expenses	\$ -		
7	Return			
	Deemed Interest Expense	\$79,719	\$79,681	\$80,297
	Return on Deemed Equity	\$165,233	\$165,157	\$168,495
8	<b>Service Revenue Requirement (before Revenues)</b>	<u>\$1,136,675</u>	<u>\$1,136,553</u>	<u>\$1,096,994</u>
9	Revenue Offsets	\$29,789	\$29,658	\$29,658
10	<b>Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)</b>	<u>\$1,106,886</u>	<u>\$1,106,895</u>	<u>\$1,067,336</u>
11	Distribution revenue	\$1,107,885	\$1,106,895	\$1,067,336
12	Other revenue	\$28,789	\$29,658	\$29,658
13	<b>Total revenue</b>	<u>\$1,136,675</u>	<u>\$1,136,553</u>	<u>\$1,096,994</u>
14	<b>Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)</b>	<u>(\$0)</u> <sup>(1)</sup>	<u>(\$0)</u> <sup>(1)</sup>	<u>\$0</u> <sup>(1)</sup>

## Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application	Interrogatory Responses	Δ% <sup>(2)</sup>	Per Board Decision	Δ% (2)
<b>Service Revenue Requirement</b>	\$1,136,675	\$1,136,553	(\$0)	\$1,096,994	(\$1)
<b>Grossed-Up Revenue</b>	\$228,090	\$241,884	\$0	\$191,647	(\$1)
<b>Base Revenue Requirement (to be recovered from Distribution Rates)</b>	\$1,106,886	\$1,106,895	\$0	\$1,067,336	(\$1)
<b>Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement</b>	\$198,507	\$210,224	\$0	\$166,976	(\$1)

### Notes

- (1) Line 11 - Line 8  
(2) Percentage Change Relative to Initial Application



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-I** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

**Appendix 2-IB** is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth and trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:		Per Board Decision								
Customer Class		Initial Application			Interrogatory Responses			Per Board Decision		
Input the name of each customer class.		Customer / Connections	kWh	kW/kVA <sup>(1)</sup>	Customer / Connections	kWh	kW/kVA <sup>(1)</sup>	Customer / Connections	kWh	kW/kVA <sup>(1)</sup>
		Test Year average or mid-year	Annual	Annual	Test Year average or mid-year	Annual	Annual	Test Year average or mid-year	Annual	Annual
1	Residential	2,100	21,616,344	-	2,100	20,643,494	-	2,100	21,429,449	-
2	General Service < 50 kW	172	5,043,563	-	172	4,817,525	-	172	4,515,363	-
3	General Service > 50 to 4999 kW	9	2,827,501	12,736	9	3,483,591	12,163	9	3,657,814	12,771
4	Unmetered Scattered Load	17	82,127	-	17	78,431	-	17	82,356	-
5	Street Lighting	530	393,969	603	530	197,134	576	530	207,000	605
6	other	-	-	-	-	-	-			
7	other	-	-	-	-	-	-			
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
Total		2,828	29,963,504	13,339	2,828	29,220,175	12,739	2,828	29,891,982	13,376

### Notes:

<sup>(1)</sup> Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: *Per Board Decision*

### A) Allocated Costs

Name of Customer Class <sup>(3)</sup>	Costs Allocated from Previous Study <sup>(1)</sup>	%	Allocated Class Revenue Requirement <sup>(1)</sup>	%
From Sheet 10. Load Forecast			(7A)	
1 Residential	\$ 687,249	77.36%	\$ 892,262	81.34%
2 General Service < 50 kW	\$ 107,690	12.12%	\$ 114,604	10.45%
3 General Service > 50 to 4999 kW	\$ 69,528	7.83%	\$ 58,565	5.34%
4 Unmetered Scattered Load	\$ 5,498	0.62%	\$ 4,749	0.43%
5 Street Lighting	\$ 18,461	2.08%	\$ 26,813	2.44%
6 other				
7 other				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
Total	\$ 888,426	100.00%	\$ 1,096,994	100.00%
			\$ 1,096,994.35	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 - Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors - Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes - If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

**B) Calculated Class Revenues**

Name of Customer Class		Load Forecast (LF) X current approved rates (7B)	LF X current approved rates X (1+d) (7C)	LF X Proposed Rates (7D)	Miscellaneous Revenues (7E)
1	Residential	\$ 869,597	\$ 836,239	\$ 839,227	\$ 22,698
2	General Service < 50 kW	\$ 108,608	\$ 123,047	\$ 123,109	\$ 5,970
3	General Service > 50 to 4999 kW	\$ 58,065	\$ 81,487	\$ 75,673	\$ 462
4	Unmetered Scattered Load	\$ 4,642	\$ 5,772	\$ 5,613	\$ 109
5	Street Lighting	\$ 26,424	\$ 20,792	\$ 23,713	\$ 419
6	other				
7	other				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Total		\$ 1,067,336	\$ 1,067,336	\$ 1,067,336	\$ 29,658

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D - Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C - The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E - If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

C) *Rebalancing Revenue-to-Cost Ratios*

Name of Customer Class		Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
		Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
		2014			
		%	%	%	%
1	Residential	107.00%	96.27%	96.60%	85 - 115
2	General Service < 50 kW	88.00%	112.58%	112.63%	85 - 115
3	General Service > 50 to 4999 kW	103.00%	139.93%	130.00%	80 - 120
4	Unmetered Scattered Load	70.00%	123.82%	120.49%	80 - 120
5	Street Lighting	70.00%	79.11%	90.00%	80 - 120
6	other				80 - 120
7	other				80 - 120
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

- (8) Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.
- (9) Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".
- (10) Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) *Proposed Revenue-to-Cost Ratios* <sup>(11)</sup>

Name of Customer Class		Proposed Revenue-to-Cost Ratio			Policy Range
		Test Year	Price Cap IR Period		
		2018	2019	2020	
1	Residential	96.60%	96.60%	96.60%	85 - 115
2	General Service < 50 kW	112.63%	112.63%	112.63%	85 - 115
3	General Service > 50 to 4999 kW	130.00%	130.00%	130.00%	80 - 120
4	Unmetered Scattered Load	120.49%	120.49%	120.49%	80 - 120
5	Street Lighting	90.00%	90.00%	90.00%	80 - 120
6	other				80 - 120
7	other				80 - 120
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

(11) The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2017 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2018 and 2019 Price Cap IR models, as necessary. For 2018 and 2019, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2017 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## New Rate Design Policy For Residential Customers

Please complete the following tables.

### A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Residential Class	
Customers	2,100
kWh	21,429,449

Proposed Residential Class Specific Revenue Requirement <sup>1</sup>	\$ 839,227.13
--	---------------

Residential Base Rates on Current Tariff	
Monthly Fixed Charge (\$)	21.87
Distribution Volumetric Rate (\$/kWh)	0.0072

### B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	21.87	2,100	\$ 551,124.00	78.13%
Variable	0.0072	21,429,449	\$ 154,292.03	21.87%
<b>TOTAL</b>	-	-	\$ 705,416.03	-

### C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy Transition Years <sup>2</sup>	4
--	---

	Test Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$ 655,667.28	26.02	\$ 655,704.00
Variable	\$ 183,559.85	0.0086	\$ 184,293.26
<b>TOTAL</b>	\$ 839,227.13	-	\$ 839,997.26

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed	83.60%	\$ 701,557.24	27.84	\$ 701,568.00
Variable	16.40%	\$ 137,669.89	0.0064	\$ 137,148.47
<b>TOTAL</b>	-	\$ 839,227.13	-	\$ 838,716.47

Checks <sup>3</sup>	
Change in Fixed Rate	\$ 1.82
Difference Between Revenues @ Proposed Rates and Class Specific	(\$510.66)
	-0.06%

Notes:

Revenue Requirement Workform  
(RRWF) for 2017 Filers

Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and volumetric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:		Per Board Decision			Class Allocated Revenues			Distribution Rates			Revenue Reconciliation						
Customer and Load Forecast					From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design			Fixed / Variable Splits <sup>2</sup>  Percentage to be entered as a fraction between 0 and 1									
Customer Class	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance <sup>1</sup> (\$)	Monthly Service Charge		Volumetric Rate		MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
From sheet 10. Load Forecast											Rate	No. of decimals	Rate	No. of decimals			
1 Residential	kWh	2,100	21,429,449	-	\$ 839,227	\$ 701,568	\$ 137,659	83.60%	16.40%		\$27.84	2	\$0.00642 /kWh	5	\$ 701,568.00	\$ 137,577.0636	\$ 839,145.06
2 General Service < 50 kW	kWh	172	4,515,363	-	\$ 123,109	\$ 43,600	\$ 79,510	35.42%	64.58%		\$21.11		\$0.01761 /kWh		\$ 43,599.63	\$ 79,515.5395	\$ 123,115.17
3 General Service > 50 to 4999 kW	kW	9	3,657,814	12,771	\$ 75,673	\$ 21,541	\$ 54,133	28.47%	71.53%		\$199.45		\$4.23869 /kW		\$ 21,540.60	\$ 54,132.7631	\$ 75,673.36
4 Unmetered Scattered Load	kWh	17	82,356	-	\$ 5,613	\$ 4,416	\$ 1,198	78.67%	21.33%		\$21.16		\$0.01454 /kWh		\$ 4,415.87	\$ 1,197.4633	\$ 5,613.33
5 Street Lighting	kW	530	207,000	605	\$ 23,713	\$ 12,710	\$ 11,002	53.60%	46.40%		\$2.00		\$18.18568 /kW		\$ 12,710.27	\$ 11,002.3364	\$ 23,712.60
6 other		-	-	-											\$ -	\$ -	\$ -
7 other		-	-	-											\$ -	\$ -	\$ -
8		-	-	-											\$ -	\$ -	\$ -
9		-	-	-											\$ -	\$ -	\$ -
10		-	-	-											\$ -	\$ -	\$ -
11		-	-	-											\$ -	\$ -	\$ -
12		-	-	-											\$ -	\$ -	\$ -
13		-	-	-											\$ -	\$ -	\$ -
14		-	-	-											\$ -	\$ -	\$ -
15		-	-	-											\$ -	\$ -	\$ -
16		-	-	-											\$ -	\$ -	\$ -
17		-	-	-											\$ -	\$ -	\$ -
18		-	-	-											\$ -	\$ -	\$ -
19		-	-	-											\$ -	\$ -	\$ -
20		-	-	-											\$ -	\$ -	\$ -
Total Transformer Ownership Allowance											\$ -						
													Rates recover revenue requirement				
													Total Distribution Revenues				
													\$ 1,067,259.52				
													Base Revenue Requirement				
													\$ 1,067,335.90				
													Difference				
													-\$ 76.38				
													% Difference				
													-0.007%				

Notes:

<sup>1</sup> Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies.

<sup>2</sup> The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calculated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

<sup>(1)</sup> Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

<sup>(2)</sup> Short description of change, issue, etc.

## Summary of Proposed Changes

Reference <sup>(1)</sup>	Item / Description <sup>(2)</sup>	Cost of Capital		Rate Base and Capital Expenditures			Operating Expenses			Revenue Requirement			
		Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues	Base Revenue Requirement	Grossed up Revenue Deficiency / Sufficiency
	Original Application	\$ 244,952	5.21%	\$ 4,704,825	\$ 4,931,014	\$ 369,826	\$ 165,121	\$ 4,630	\$ 721,971	\$ 1,136,675	\$ 28,789	\$ 1,107,885	\$ 228,090
1	Updates to the LF	\$ 244,522	5.21%	\$ 4,696,568	\$ 4,820,916	\$ 361,569	\$ 165,121	\$ 4,579	\$ 721,971	\$ 1,136,194	\$ 28,789	\$ 1,107,404	\$ 242,535