

EB-2022-0022

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.
for an order approving just and reasonable rates and other
charges for electricity distribution beginning January 1, 2023.

COOPERATIVE HYDRO EMBRUN INC.

DRAFT RATE ORDER

FILED NOVEMBER 7, 2022

A. BACKGROUND

Cooperative Hydro Embrun Inc. (the Applicant or CHEI) filed a Cost-of-Service application with the Ontario Energy Board (the OEB) on February 1, 2022, under section 78 of the Ontario Energy Board Act, 1998, S.O. 1998, c. 15, (Schedule B) (the Act), seeking approval for changes to the rates that CHEI charges for electricity distribution, to be effective January 1, 2023 (OEB file number EB-2022-0022) (the Application).

The OEB issued a Letter of Direction and Notice of Application on February 23, 2022. In Procedural Order No. 1, dated March 22, 2022, the OEB approved the Vulnerable Energy Consumers Coalition (VECC) as an intervenor.

The Settlement Conference was convened on May 16 and 17, 2022 in accordance with the OEB's Rules of Practice and Procedure (the Rules) and the OEB's Practice Direction on Settlement Conferences. VECC and OEB Staff participated in the Settlement Conference. Pursuant to the direction from the OEB on April 7, 2022, OEB Staff's participation in the Settlement Conference is as a party.

On July 19, 2022, the OEB issued its Decision and Order ("the Decision"). In its Decision, the OEB approved the settlement proposal as filed and made the following findings:

"A draft Tariff of Rates and Charges has been included with the settlement proposal for rates effective on January 1, 2023. The draft Tariff of Rates and Charges uses the existing 2022 OEB-approved values as placeholders. As noted in the settlement proposal, many of the "pass through" elements that are to be included in the final rate order have yet to be updated by the OEB for the 2023 test year. These include:

- Cost of Capital parameters (return on equity, deemed long-term debt rate and deemed short-term debt rate) for 2023 test year applications*
- Retail Service Charges and Pole Attachment Charge for 2023*
- Uniform Transmission Rates for 2023*
- Ontario Electricity Rebate amount effective January 1, 2023*

- *Updates to the Regulated Price Plan effective January 1, 2023*
- *An updated working capital calculation to the extent it is impacted by the other Updates.*

Accordingly, the parties have agreed to use the existing OEB-approved values as placeholders for these elements in the settlement proposal. The settlement proposal acknowledged that certain items may be subject to adjustments based on the outcome of pending OEB decisions. Cooperative Hydro Embrun shall file its draft rate order with detailed supporting material showing the impact of any required adjustments. As part of the draft rate order, Cooperative Hydro Embrun will update the placeholder values with the approved 2023 values if available.”

CHEI submits this draft rate order (“DRO”), which incorporates the information directed by the Board from the Decision. Included in this DRO are the following Appendices:

- Appendix A - Draft Tariff of Rates and Charges effective January 1, 2023
- Appendix B - Bill Impacts
- Appendix C - Revenue Requirement Work Form
- Appendix D - Cost Allocation

Also included as part of this DRO are the following “live” Excel workbooks:

- CHEI_DRO_Ch2_Appendices_20221107
- CHEI_DRO_2023_Cost_Allocation_Model_20221107
- CHEI_DRO_2023_Rev_Reqt_Workform_20221107
- CHEI_DRO_2023_Tariff_Schedule_and_Bill_Impact_Model_20221107
- CHEI_DRO_2023_Test_year_Income_Tax_PILs_20221107
- CHEI_DRO_2023_DVA_Continuity_Schedule_20221107

The DRO has been prepared on the basis that CHEI’s new rates will be effective January 1, 2023.

B. BILL IMPACTS

A summary of the bill impacts is presented in the table below. Appendix B contains a detailed set of bill impact calculations.

Table 1- Bill Impacts

RATE CLASSES / CATEGORIES (e.g.: Residential TOU, Residential Retailer)	Units	Sub-Total						Total	
		A		B		C		Total Bill	
		\$	%	\$	%	\$	%	\$	%
Residential RPP	kWh	-\$2.47	-6.6%	-\$1.50	-3.3%	\$0.38	0.7%	\$0.41	0.3%
General Service < 50 kW	kWh	-\$3.70	-6.2%	-\$1.51	-1.9%	\$3.04	2.8%	\$3.15	1.0%
General Service > 50 to 4999 kW	kW	-\$11.14	-2.1%	-\$79.13	-12.9%	-\$13.91	-1.4%	\$20.84	0.4%
Unmetered Scattered Load	kW	-\$2.68	-43.8%	-\$2.54	-24.0%	-\$1.63	-10.2%	-\$1.64	-2.6%
Street Lighting	kW	-\$243.36	-11.0%	-\$240.19	-10.6%	-\$210.57	-8.6%	-\$204.71	-3.0%
Residential Non-RPP	kWh	-\$2.47	-6.6%	-\$3.18	-6.8%	-\$1.31	-2.3%	-\$1.30	-0.9%

CHEI notes that no bill impact exceeds 10% at the average usage level, therefore no rate mitigation is required. The bill impacts have been updated to reflect the changed 2023 distribution rates resulting from the revenue requirement changes outlined below. Additionally, CHEI has used the updated Time of Use rates and OER in the calculations of the total bill impact. Consistent with Chapter 2 the OEB’s *Filing Requirements for Electricity Distribution Rate Applications 2022 Edition for 2023 Rate Applications*, the commodity rates and regulatory charges are held constant in these calculations.

C. DECISION

As a result of the OEB's updates¹, CHEI's service revenue requirement has been updated to \$1,271,968 and the base revenue requirement to \$1,225,848. The revenue deficiency has been updated to -\$63,573 as per the attached Revenue Requirement Work Form (Appendix C). CHEI has filed the live Excel sheet "CHEI_DRO_2023_Revenue Requirement Work Form" and has attached the output as Appendix C to this filing.

Rate Base/ Cost of Power

On October 21, 2022, the OEB released its Regulated Price Plan Price Report for November 1, 2022 to October 31, 2023. The report accompanied the announcement of changes to the existing RPP rates would apply beginning November 1, 2022. The OEB also announced a change to the level of Ontario Electricity Rebate (OER) to 11.7% effective November 1, 2022. As a result of the updated Price Plan Report, updated forecasts for wholesale cost of power were available.

CHEI has updated the Power Supply Expense/Cost of Power calculations using the updated forecasts in Table ES-1 of the updated Regulated Price Plan Price Report.

The resultant updates to the Power Supply Expense are presented in Table 2 below.

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- ¹ Cost of Capital Parameter Update
Letter: https://www.oeb.ca/sites/default/files/OEB_ltr_2023_cost%20of%20capital-updates-20221020.pdf
 - RPP News Release: <https://www.oeb.ca/newsroom/2022/ontario-energy-board-announces-changes-electricity-prices-households-and-small>
 - RPP Price Report: <https://www.oeb.ca/sites/default/files/rpp-price-report-20221021.pdf>
 - Backgrounder - OEB Approves Lower Smart Metering Charge to the End of 2027 - September 8, 2022

Table 2- Cost of Power/ Power Supply Expense Summary

	Settlement Agreement July 19 2022	DRO Nov 7 2022	Variance
4705 -Power Purchased	\$2,922,905	\$2,776,658	-\$146,248
4707- Global Adjustment	\$345,320	\$196,006	-\$149,314
4708-Charges-WMS	\$123,294	\$123,294	\$0
4714-Charges-NW	\$287,846	\$287,846	\$0
4716-Charges-CN	\$201,873	\$201,873	\$0
4750-Charges-LV	\$121,149	\$121,149	\$0
4751-IESO SME	\$12,950	\$12,649	-\$301
Misc A/R or A/P	-\$573,396	-\$363,046	\$210,350
TOTAL	\$3,441,940	\$3,356,427	-\$85,513

In turn, the updated Cost of Power Expense has resulted in a change to the working capital allowance component of Rate Base. Please see a summary of the rate base changes provided below.

Table 3 – Summary of Rate Base

Particulars	Settlement Agreement July 19 2022	DRO Nov 7 2022	Variance
Gross Fixed Assets (avg)	\$7,045,069	\$7,045,069	\$0
Accumulated Depreciation (avg)	-\$2,713,355	-\$2,713,355	\$0
Net Fixed Assets (avg)	\$4,331,714	\$4,331,714	\$0
Allowance for Working Capital	\$315,888	\$309,474	-\$6,413
Total Rate Base	\$4,647,601	\$4,641,188	-\$6,413
Controllable Expenses	\$769,895	\$769,895	\$0
Cost of Power	\$3,441,940	\$3,356,427	-\$85,513
Working Capital Base	\$4,211,835	\$4,126,322	-\$85,513
Working Capital Rate %	7.50%	7.50%	0%
Working Capital Allowance	\$315,888	\$309,474	-\$6,413

Cost of Capital

Due to the changes in the interest rate for short- and long-term debt, the total return on debt was increased from \$93,008, to \$135,727. The decrease to rate base described above has also contributed to this change, marginally offsetting the impact of the increase to debt rates.

The total return on equity was increased from \$160,993 to \$173,766. In addition to the change in the return on equity deemed rate, the return on equity amount was also impacted by the increase to rate base.

Table 4 – Cost of Capital

Particulars	Settlement Agreement July 19 2022	Settlement Agreement July 19 2022	DRO Nov 7 2022	DRO Nov 7 2022	Variance
Debt					
Long-term Debt	3.49%	\$90,833	4.88%	\$126,834	\$36,002
Short-term Debt	1.17%	\$2,175	4.79%	\$8,893	\$6,717
Total Debt	3.34%	\$93,008	2.86%	\$135,727	\$42,719
Equity					
Common Equity	8.66%	\$160,993	9.36%	\$173,766	\$12,773
Preferred Shares	0.00%	\$0	0.00%	\$0	\$0
Total Equity	8.66%	\$160,993	9.36%	\$173,766	\$12,773
Total	5.47%	\$254,001	6.67%	\$309,493	\$55,492

Revenue Requirement

As a result of the changes to cost of capital and PILS, the service revenue requirement has been updated to \$1,271,863 and the base revenue requirement to \$1,225,742.

Please see Table 5 below for a summary of these changes.

Table 5- Changes to Revenue Requirement

	Settlement Agreement July 19 2022	DRO Nov 7 2022	Variance
OM&A Expenses	\$769,895	\$769,895	\$0
Amortization/Depreciation	\$188,568	\$188,568	\$0
Property Taxes	\$0	\$0	\$0
Capital Taxes	\$0	\$0	\$0
Income Taxes (Grossed up)	\$2,132	\$3,907	\$1,775
Other Expenses	\$0	\$0	\$0
Return			
Deemed Interest Expense	\$93,008	\$135,727	\$42,719
Return on Deemed Equity	\$160,993	\$173,766	\$12,773
Service Revenue Requirement (before Revenue Offsets)	\$1,214,596	\$1,271,863	\$57,267
Revenue Offsets	\$46,121	\$46,121	\$0
Base Revenue Requirement	\$1,168,475	\$1,225,742	\$57,267
Gross Revenue Deficiency/Sufficiency	-\$120,870	-\$63,573	-\$57,297

The change in return equity has further resulted in an increase of \$1,775 to the level of PILS, from \$2,132 to \$3,907. The calculations supporting this change are included in the submitted live excel models “CHEI_DRO_2023_Rev_Reqt_Workform_20221107” and “CHEI_DRO_2023_Test_year_Income_Tax_PILs_20221107”

Cost Allocation

As a result of the changes to the revenue requirement, the Cost Allocation Model was updated with the new data. CHEI has attached sheets O1 and O2 of the Cost Allocation Model as Appendix D to this filing.

Consistent with the approach underpinning the Settlement Proposal, CHEI has set the revenue to-cost ratios for Unmetered Scattered Load (initially above the Board’s target) to 120% and increasing the GS >50-4999kW to 92% from 88%. No adjustments were required to the residential, GS<50 kW and Streetlight classes from the revenue to costs produced by the Cost Allocation process.

A summary of the updated revenue to cost ratios are provided below in Table 6:

Table 6 – Revenue to Cost Ratios

Particulars	Settlement Agreement July 19 2022		DRO Nov 7 2022	
	Calculated R/C Ratio	Proposed R/C Ratio	Calculated R/C Ratio	Proposed R/C Ratio
Residential	1.00	1.00	1.00	1.00
General Service < 50 kW	1.00	1.00	0.98	0.98
General Service > 50 to 4999 kW	0.93	0.96	0.88	0.92
Unmetered Scattered Load	1.99	1.20	2.04	1.20
Street Lighting	1.17	1.17	1.19	1.19

The resulting allocation of revenue requirement per customer class can be found in Table 7 below.

Rate Design

As a result of the updates to the revenue requirement, distribution rates have been adjusted for all rate classes however, no changes have been made to the fixed/variable split for all classes. The fixed/variable splits are provided below in Table 7:

Table 7– Updated Rate Design

Particulars		Settlement Agreement July 19 2022	Settlement Agreement July 19 2022	DRO Nov 7 2022	DRO Nov 7 2022
Customer Class Name	per	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate
Residential	kWh	100.00%	0.00%	100.00%	0.00%
General Service < 50 kW	kWh	33.81%	66.19%	33.82%	66.18%
General Service > 50 to 4999 kW	kW	29.86%	70.14%	29.87%	70.13%
Unmetered Scattered Load	kW	76.73%	23.27%	76.73%	23.27%
Street Lighting	kW	56.11%	43.89%	56.11%	43.89%

The resulting adjustments result in distribution rates shown below in Table 8, and included in Appendix A – Tariff Schedule and Appendix B- Bill Impacts:

Table 8 -Summary of Distribution Rates

Particulars		Settlement Agreement July 19 2022	Settlement Agreement July 19 2022	DRO Nov 7 2022	DRO Nov 7 2022	Variance	Variance
Customer Class Name	per	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate
Residential	kWh	\$33.93	\$0.0000	\$35.59	\$0.0000	\$1.66	\$0.0000
General Service < 50 kW	kWh	\$20.25	\$0.0169	\$21.24	\$0.0178	\$0.99	\$0.0008
General Service > 50 to 4999 kW	kW	\$182.81	\$3.8852	\$192.03	\$4.0811	\$9.22	\$0.1959
Unmetered Scattered Load	kW	\$12.30	\$0.0084	\$12.56	\$0.0086	\$0.26	\$0.0002
Street Lighting	kW	\$2.14	\$19.4100	\$2.24	\$20.3613	\$0.10	\$0.9513

CHEI notes that there have been no changes in the deferral and variance rate riders from the settlement agreement approved on July 19, 2022.

Conclusion

CHEI respectfully submits its draft Tariff of Rates and Changes, to be effective as of January 1, 2023 for the Board's approval (subject to any updates from the issuance of the Inflation Rate for 2023 Rates, as this will apply to the Retail Service Charges).

Appendix A - Draft Tariff of Rates and Charges effective January 1, 2023

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date

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

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	\$	35.59
Rate Rider for Disposition of Group 2 Deferral and Variance Accounts - effective until December 31, 2023	\$	(0.62)
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.42
Low Voltage Service Rate	\$/kWh	0.0043
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2023	\$/kWh	(0.0005)
Rate Rider for RSVA - Power-Global Adjustment - effective until December 31, 2023	\$/kWh	(0.0024)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0096
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0068

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

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

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	\$	21.24
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.42
Distribution Volumetric Rate	\$/kWh	0.0178
Low Voltage Service Rate	\$/kWh	0.0037
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2023	\$/kWh	(0.0005)
Rate Rider for RSVA - Power-Global Adjustment - effective until December 31, 2023	\$/kWh	(0.0024)
Rate Rider for Disposition of Group 2 Deferral and Variance Accounts - effective until December 31, 2023	\$/kWh	(0.0004)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0087
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0059

MONTHLY RATES AND CHARGES - Regulatory Component

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

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date

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

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	\$	192.03
Distribution Volumetric Rate	\$/kW	4.0811
Low Voltage Service Rate	\$/kW	1.3860
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2023	\$/kW	(0.1635)
Rate Rider for Disposition of Group 2 Deferral and Variance Accounts - effective until December 31, 2023	\$/kW	(0.0491)
Rate Rider for RSVA - Power-Global Adjustment - effective until December 31, 2023	\$/kWh	(0.0024)
Retail Transmission Rate - Network Service Rate	\$/kW	3.5297

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date

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Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.3878
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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

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

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)	\$	12.56
Distribution Volumetric Rate	\$/kWh	0.0086
Low Voltage Service Rate	\$/kWh	0.0037
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2023	\$/kWh	(0.0005)
Rate Rider for Disposition of Group 2 Deferral and Variance Accounts - effective until December 31, 2023	\$/kWh	(0.0009)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0087
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0059

MONTHLY RATES AND CHARGES - Regulatory Component

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

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date

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

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)	\$	2.24
Distribution Volumetric Rate	\$/kW	20.3613
Low Voltage Service Rate	\$/kW	1.0714
Rate Rider for Disposition of Deferral/Variance Accounts - effective until December 31, 2023	\$/kW	(0.1687)
Rate Rider for Disposition of Group 2 Deferral and Variance Accounts - effective until December 31, 2023	\$/kW	(2.7562)
Retail Transmission Rate - Network Service Rate	\$/kW	2.6621
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.8458

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

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

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
Request for other billing information	\$	15.00
Income tax letter	\$	15.00
Account history	\$	15.00
Credit check (plus credit agency costs)	\$	25.00

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date

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

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	\$	34.76

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	\$	107.68
Monthly fixed charge, per retailer	\$	43.08
Monthly variable charge, per customer, per retailer	\$/cust.	1.07
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.64
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.64)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.54
Processing fee, per request, applied to the requesting party	\$	1.07
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

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date

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

More than twice a year, per request (plus incremental delivery costs)	\$	4.31
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)	\$	2.15

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	1.0835
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0835

Appendix B - Bill Impacts

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	750	kWh
Demand	-	kW
Current Loss Factor	1.0749	
Proposed/Approved Loss Factor	1.0835	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 37.44	1	\$ 37.44	\$ 35.59	1	\$ 35.59	\$ (1.85)	-4.94%
Distribution Volumetric Rate	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	-
Fixed Rate Riders	\$ -	1	\$ -	\$ (0.62)	1	\$ (0.62)	\$ (0.62)	-
Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	-
Sub-Total A (excluding pass through)			\$ 37.44			\$ 34.97	\$ (2.47)	-6.60%
Line Losses on Cost of Power	\$ 0.0926	56	\$ 5.20	\$ 0.0926	63	\$ 5.80	\$ 0.60	11.48%
Total Deferral/Variance Account Rate Riders	\$ -	750	\$ -	\$ (0.0005)	750	\$ (0.38)	\$ (0.38)	-
CBR Class B Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	-
GA Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	-
Low Voltage Service Charge	\$ 0.0033	750	\$ 2.48	\$ 0.0043	750	\$ 3.23	\$ 0.75	30.30%
Smart Meter Entity Charge (if applicable)	\$ 0.42	1	\$ 0.42	\$ 0.42	1	\$ 0.42	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	-
Sub-Total B - Distribution (includes Sub-Total A)			\$ 45.54			\$ 44.04	\$ (1.50)	-3.29%
RTSR - Network	\$ 0.0077	806	\$ 6.21	\$ 0.0096	813	\$ 7.80	\$ 1.59	25.67%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0065	806	\$ 5.24	\$ 0.0068	813	\$ 5.53	\$ 0.29	5.45%
Sub-Total C - Delivery (including Sub-Total B)			\$ 56.99			\$ 57.37	\$ 0.38	0.67%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	806	\$ 2.74	\$ 0.0034	813	\$ 2.76	\$ 0.02	0.80%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	806	\$ 0.40	\$ 0.0005	813	\$ 0.41	\$ 0.00	0.80%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0740	488	\$ 36.08	\$ 0.0740	488	\$ 36.08	\$ -	0.00%
TOU - Mid Peak	\$ 0.1020	128	\$ 13.01	\$ 0.1020	128	\$ 13.01	\$ -	0.00%
TOU - On Peak	\$ 0.1510	135	\$ 20.39	\$ 0.1510	135	\$ 20.39	\$ -	0.00%
Total Bill on TOU (before Taxes)			\$ 129.84			\$ 130.25	\$ 0.41	0.31%
HST	13%		\$ 16.88	13%		\$ 16.93	\$ 0.05	0.31%
Ontario Electricity Rebate	11.7%		\$ (15.19)	11.7%		\$ (15.24)	\$ (0.05)	-
Total Bill on TOU			\$ 131.53			\$ 131.94	\$ 0.41	0.31%

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 **1.0835**

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 22.34	1	\$ 22.34	\$ 21.24	1	\$ 21.24	\$ (1.10)	-4.92%
Distribution Volumetric Rate	\$ 0.0187	2000	\$ 37.40	\$ 0.0178	2000	\$ 35.60	\$ (1.80)	-4.81%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	2000	\$ -	\$ (0.0004)	2000	\$ (0.80)	\$ (0.80)	-
Sub-Total A (excluding pass through)			\$ 59.74			\$ 56.04	\$ (3.70)	-6.19%
Line Losses on Cost of Power	\$ 0.0926	150	\$ 13.87	\$ 0.0926	167	\$ 15.47	\$ 1.59	11.48%
Total Deferral/Variance Account Rate Riders	\$ -	2,000	\$ -	\$ (0.0005)	2,000	\$ (1.00)	\$ (1.00)	-
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	\$ 0.0037	2,000	\$ 7.40	\$ 1.60	27.59%
Smart Meter Entity Charge (if applicable)	\$ 0.42	1	\$ 0.42	\$ 0.42	1	\$ 0.42	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Volumetric Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	-
Sub-Total B - Distribution (includes Sub-Total A)			\$ 79.83			\$ 78.33	\$ (1.51)	-1.89%
RTSR - Network	\$ 0.0070	2,150	\$ 15.05	\$ 0.0087	2,167	\$ 18.85	\$ 3.80	25.28%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0056	2,150	\$ 12.04	\$ 0.0059	2,167	\$ 12.79	\$ 0.75	6.20%
Sub-Total C - Delivery (including Sub-Total B)			\$ 106.92			\$ 109.97	\$ 3.04	2.85%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	2,150	\$ 7.31	\$ 0.0034	2,167	\$ 7.37	\$ 0.06	0.80%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	2,150	\$ 1.07	\$ 0.0005	2,167	\$ 1.08	\$ 0.01	0.80%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0740	1,300	\$ 96.20	\$ 0.0740	1,300	\$ 96.20	\$ -	0.00%
TOU - Mid Peak	\$ 0.1020	340	\$ 34.68	\$ 0.1020	340	\$ 34.68	\$ -	0.00%
TOU - On Peak	\$ 0.1510	360	\$ 54.36	\$ 0.1510	360	\$ 54.36	\$ -	0.00%
Total Bill on TOU (before Taxes)			\$ 300.80			\$ 303.91	\$ 3.11	1.03%
HST	13%		\$ 39.10	13%		\$ 39.51	\$ 0.40	1.03%
Ontario Electricity Rebate	11.7%		\$ (35.19)	11.7%		\$ (35.56)	\$ (0.36)	-
Total Bill on TOU			\$ 304.71			\$ 307.86	\$ 3.15	1.03%

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	1.0835	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 194.70	1	\$ 194.70	\$ 192.03	1	\$ 192.03	\$ (2.67)	-1.37%
Distribution Volumetric Rate	\$ 4.1379	80	\$ 331.03	\$ 4.0811	80	\$ 326.49	\$ (4.54)	-1.37%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	80	\$ -	\$ (0.0491)	80	\$ (3.93)	\$ (3.93)	
Sub-Total A (excluding pass through)			\$ 525.73			\$ 514.59	\$ (11.14)	-2.12%
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	\$ -	80	\$ -	\$ (0.1635)	80	\$ (13.08)	\$ (13.08)	
CBR Class B Rate Riders	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	
GA Rate Riders	\$ -	33,000	\$ -	\$ (0.0024)	33,000	\$ (79.20)	\$ (79.20)	
Low Voltage Service Charge	\$ 1.0823	80	\$ 86.58	\$ 1.3860	80	\$ 110.88	\$ 24.30	28.06%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 612.32			\$ 533.19	\$ (79.13)	-12.92%
RTSR - Network	\$ 2.8324	80	\$ 226.59	\$ 3.5297	80	\$ 282.38	\$ 55.78	24.62%
RTSR - Connection and/or Line and Transformation Connection	\$ 2.2699	80	\$ 181.59	\$ 2.3878	80	\$ 191.02	\$ 9.43	5.19%
Sub-Total C - Delivery (including Sub-Total B)			\$ 1,020.50			\$ 1,006.59	\$ (13.91)	-1.36%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	35,472	\$ 120.60	\$ 0.0034	35,756	\$ 121.57	\$ 0.96	0.80%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	35,472	\$ 17.74	\$ 0.0005	35,756	\$ 17.88	\$ 0.14	0.80%
Standard Supply Service Charge Non-RPP Retailer Avg. Price	\$ 0.1101	35,472	\$ 3,905.43	\$ 0.1101	35,756	\$ 3,936.68	\$ 31.25	0.80%
Total Bill on Non-RPP Avg. Price			\$ 5,064.27			\$ 5,082.72	\$ 18.44	0.36%
HST	13%		\$ 658.36	13%		\$ 660.75	\$ 2.40	0.36%
Ontario Electricity Rebate	11.7%		\$ -	11.7%		\$ -	\$ -	
Total Bill on Non-RPP Avg. Price			\$ 5,722.63			\$ 5,743.47	\$ 20.84	0.36%

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

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 **1.0835**

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 22.39		\$ -	\$ 12.56	0	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0153	400	\$ 6.12	\$ 0.0086	400	\$ 3.44	\$ (2.68)	-43.79%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	400	\$ -	\$ -	400	\$ -	\$ -	
Sub-Total A (excluding pass through)			\$ 6.12			\$ 3.44	\$ (2.68)	-43.79%
Line Losses on Cost of Power	\$ 0.1101	30	\$ 3.30	\$ 0.1101	33	\$ 3.68	\$ 0.38	11.48%
Total Deferral/Variance Account Rate Riders	\$ -	400	\$ -	\$ (0.0005)	400	\$ (0.20)	\$ (0.20)	
CBR Class B Rate Riders	\$ -	400	\$ -	\$ -	400	\$ -	\$ -	
GA Rate Riders	\$ -	400	\$ -	\$ -	400	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0029	400	\$ 1.16	\$ 0.0037	400	\$ 1.48	\$ 0.32	27.59%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	400	\$ -	\$ (0.0009)	400	\$ (0.36)	\$ (0.36)	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 10.58			\$ 8.04	\$ (2.54)	-24.02%
RTSR - Network	\$ 0.0070	430	\$ 3.01	\$ 0.0087	433	\$ 3.77	\$ 0.76	25.28%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0056	430	\$ 2.41	\$ 0.0059	433	\$ 2.56	\$ 0.15	6.20%
Sub-Total C - Delivery (including Sub-Total B)			\$ 16.00			\$ 14.36	\$ (1.63)	-10.20%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	430	\$ 1.46	\$ 0.0034	433	\$ 1.47	\$ 0.01	0.80%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	430	\$ 0.21	\$ 0.0005	433	\$ 0.22	\$ 0.00	0.80%
Standard Supply Service Charge								
Non-RPP Retailer Avg. Price	\$ 0.1101	400	\$ 44.04	\$ 0.1101	400	\$ 44.04	\$ -	0.00%
Total Bill on Non-RPP Avg. Price			\$ 61.71			\$ 60.10	\$ (1.62)	-2.62%
HST	13%		\$ 8.02	13%		\$ 7.81	\$ (0.21)	-2.62%
Ontario Electricity Rebate	11.7%		\$ (7.22)	11.7%		\$ (7.03)	\$ (0.19)	-2.62%
Total Bill on Non-RPP Avg. Price			\$ 62.52			\$ 60.88	\$ (1.64)	-2.62%

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	1.0835	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 2.36	503	\$ 1,187.08	\$ 2.24	503	\$ 1,126.72	\$ (60.36)	-5.08%
Distribution Volumetric Rate	\$ 21.4175	48	\$ 1,028.04	\$ 20.3613	48	\$ 977.34	\$ (50.70)	-4.93%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	48	\$ -	\$ (2.7562)	48	\$ (132.30)	\$ (132.30)	-
Sub-Total A (excluding pass through)			\$ 2,215.12			\$ 1,971.76	\$ (243.36)	-10.99%
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-
Total Deferral/Variance Account Rate Riders	\$ -	48	\$ -	\$ (0.1687)	48	\$ (8.10)	\$ (8.10)	-
CBR Class B Rate Riders	\$ -	48	\$ -	\$ -	48	\$ -	\$ -	-
GA Rate Riders	\$ -	30,000	\$ -	\$ -	30,000	\$ -	\$ -	-
Low Voltage Service Charge	\$ 0.8367	48	\$ 40.16	\$ 1.0714	48	\$ 51.43	\$ 11.27	28.05%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Volumetric Rate Riders	\$ -	48	\$ -	\$ -	48	\$ -	\$ -	-
Sub-Total B - Distribution (includes Sub-Total A)			\$ 2,255.28			\$ 2,015.09	\$ (240.19)	-10.65%
RTSR - Network	\$ 2.1362	48	\$ 102.54	\$ 2.6621	48	\$ 127.78	\$ 25.24	24.62%
RTSR - Connection and/or Line and Transformation Connection	\$ 1.7547	48	\$ 84.23	\$ 1.8458	48	\$ 88.60	\$ 4.37	5.19%
Sub-Total C - Delivery (including Sub-Total B)			\$ 2,442.04			\$ 2,231.47	\$ (210.57)	-8.62%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	32,247	\$ 109.64	\$ 0.0034	32,505	\$ 110.52	\$ 0.88	0.80%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	32,247	\$ 16.12	\$ 0.0005	32,505	\$ 16.25	\$ 0.13	0.80%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1101	32,247	\$ 3,550.39	\$ 0.1101	32,505	\$ 3,578.80	\$ 28.41	0.80%
Total Bill on Average IESO Wholesale Market Price			\$ 6,118.45			\$ 5,937.29	\$ (181.16)	-2.96%
HST	13%		\$ 795.40	13%		\$ 771.85	\$ (23.55)	-2.96%
Ontario Electricity Rebate	11.7%		\$ -	11.7%		\$ -	\$ -	-
Total Bill on Average IESO Wholesale Market Price			\$ 6,913.85			\$ 6,709.14	\$ (204.71)	-2.96%

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

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	1.0835	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 37.44	1	\$ 37.44	\$ 35.59	1	\$ 35.59	\$ (1.85)	-4.94%
Distribution Volumetric Rate	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
Fixed Rate Riders	\$ -	1	\$ -	\$ (0.62)	1	\$ (0.62)	\$ (0.62)	
Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
Sub-Total A (excluding pass through)			\$ 37.44			\$ 34.97	\$ (2.47)	-6.60%
Line Losses on Cost of Power	\$ 0.1101	56	\$ 6.18	\$ 0.1101	63	\$ 6.90	\$ 0.71	11.48%
Total Deferral/Variance Account Rate Riders	\$ -	750	\$ -	\$ (0.0005)	750	\$ (0.38)	\$ (0.38)	
CBR Class B Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
GA Rate Riders	\$ -	750	\$ -	\$ (0.0024)	750	\$ (1.80)	\$ (1.80)	
Low Voltage Service Charge	\$ 0.0033	750	\$ 2.48	\$ 0.0043	750	\$ 3.23	\$ 0.75	30.30%
Smart Meter Entity Charge (if applicable)	\$ 0.42	1	\$ 0.42	\$ 0.42	1	\$ 0.42	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	750	\$ -	\$ -	750	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 46.52			\$ 43.34	\$ (3.18)	-6.85%
RTSR - Network	\$ 0.0077	806	\$ 6.21	\$ 0.0096	813	\$ 7.80	\$ 1.59	25.67%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0065	806	\$ 5.24	\$ 0.0068	813	\$ 5.53	\$ 0.29	5.45%
Sub-Total C - Delivery (including Sub-Total B)			\$ 57.97			\$ 56.66	\$ (1.31)	-2.25%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	806	\$ 2.74	\$ 0.0034	813	\$ 2.76	\$ 0.02	0.80%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	806	\$ 0.40	\$ 0.0005	813	\$ 0.41	\$ 0.00	0.80%
Standard Supply Service Charge								
Non-RPP Retailer Avg. Price	\$ 0.1101	750	\$ 82.58	\$ 0.1101	750	\$ 82.58	\$ -	0.00%
Total Bill on Non-RPP Avg. Price			\$ 143.69			\$ 142.41	\$ (1.28)	-0.89%
HST 13%			\$ 18.68	13%		\$ 18.51	\$ (0.17)	-0.89%
Ontario Electricity Rebate 11.7%			\$ (16.81)	11.7%		\$ (16.66)		
Total Bill on Non-RPP Avg. Price			\$ 145.55			\$ 144.26	\$ (1.30)	-0.89%

In the manager's summary, discuss the reason for the change in the distribution sub-total.

In the manager's summary, discuss the reason for the change in the delivery sub-total.

Appendix C - Revenue Requirement Work Form



Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2023 Filers



Version 1.00

Utility Name	Cooperative Hydro Embrun Inc.
Service Territory	
Assigned EB Number	EB-2022-0022
Name and Title	Benoit Lamarch
Phone Number	(613) 443-5110
Email Address	blamarche@hydroembrun.ca
Test Year	2023
Bridge Year	2022
Last Rebasing Year	2018

The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

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



Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2023 Filers

[1. Info](#)

[2. Table of Contents](#)

[3. Data Input Sheet](#)

[4. Rate Base](#)

[5. Utility Income](#)

[6. Taxes PILs](#)

[7. Cost of Capital](#)

[8. Rev Def Suff](#)

[9. Rev Req](#)

[10. Load Forecast](#)

[11. Cost Allocation](#)

[12. Residential Rate Design](#)

[13. Rate Design and Revenue Reconciliation](#)

[14. Tracking Sheet](#)

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 2023 Filers

Data Input ⁽¹⁾

	Initial Application ⁽²⁾	Adjustments	Interrogatory Responses ⁽⁶⁾	Adjustments	Settlement Agreement
1 Rate Base					
Gross Fixed Assets (average)	\$7,185,613	(\$20,244)	\$ 7,165,369	(\$120,300)	\$7,045,069
Accumulated Depreciation (average)	(\$2,708,489) ⁽⁵⁾	(\$7,332)	(\$2,715,821)	\$2,465	(\$2,713,355)
Allowance for Working Capital:					
Controllable Expenses	\$753,157	\$16,738	\$ 769,895	\$ -	\$769,895
Cost of Power	\$3,293,006	\$26,558	\$ 3,319,565	\$36,862	\$3,356,427
Working Capital Rate (%)	7.50% ⁽⁹⁾	0.00%	7.50% ⁽⁹⁾	0.00%	7.50% ⁽⁹⁾
2 Utility Income					
Operating Revenues:					
Distribution Revenue at Current Rates	\$1,289,315	\$0	\$1,289,315	\$0	\$1,289,315
Distribution Revenue at Proposed Rates	\$1,165,281	\$12,793	\$1,178,074	\$47,773	\$1,225,848
Other Revenue:					
Specific Service Charges	\$7,304	\$395	\$7,699	\$0	\$7,699
Late Payment Charges	\$11,450	\$0	\$11,450	\$0	\$11,450
Other Distribution Revenue	\$21,996	(\$3,024)	\$18,972	\$0	\$18,972
Other Income and Deductions	\$8,000	\$0	\$8,000	\$0	\$8,000
Total Revenue Offsets	\$48,750 ⁽⁷⁾	(\$2,629)	\$46,121	\$0	\$46,121
Operating Expenses:					
OM+A Expenses	\$753,157	\$16,738	\$ 769,895	\$ -	\$769,895
Depreciation/Amortization	\$180,507	\$11,484	\$ 191,991	(\$3,424)	\$188,568
Property taxes					
Other expenses					
3 Taxes/PILs					
Taxable Income:					
Adjustments required to arrive at taxable income	(\$28,152) ⁽³⁾	(\$119,488)	(\$147,640)	\$1,993	(\$145,647)
Utility Income Taxes and Rates:					
Income taxes (not grossed up)	\$16,769	(\$14,689)	\$2,080	\$1,357	\$3,437
Income taxes (grossed up)	\$19,099		\$2,369		\$3,915
Federal tax (%)	9.00%	0.00%	9.00%	0.00%	9.00%
Provincial tax (%)	3.20%	0.00%	3.20%	0.00%	3.20%
Income Tax Credits					
4 Capitalization/Cost of Capital					
Capital Structure:					
Long-term debt Capitalization Ratio (%)	56.0%	0.00%	56.0%	0.00%	56.0%
Short-term debt Capitalization Ratio (%)	4.0% ⁽⁸⁾	0.00%	4.0% ⁽⁸⁾	0.00%	4.0% ⁽⁸⁾
Common Equity Capitalization Ratio (%)	40.0%	0.00%	40.0%	0.00%	40.0%
Preferred Shares Capitalization Ratio (%)					
	100.0%		100.0%		100.0%
Cost of Capital					
Long-term debt Cost Rate (%)	3.49%	0.00%	3.49%	1.39%	4.88%
Short-term debt Cost Rate (%)	1.17%	0.00%	1.17%	3.62%	4.79%
Common Equity Cost Rate (%)	8.66%	0.00%	8.66%	0.70%	9.36%
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 M12. 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.



Revenue Requirement Workform (RRWF) for 2023 Filers

Rate Base and Working Capital

Line No.	Rate Base Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Settlement Agreement
1	Gross Fixed Assets (average) ⁽²⁾	\$7,185,613	(\$20,244)	\$7,165,369	(\$120,300)	\$7,045,069
2	Accumulated Depreciation (average) ⁽²⁾	(\$2,708,489)	(\$7,332)	(\$2,715,821)	\$2,465	(\$2,713,355)
3	Net Fixed Assets (average) ⁽²⁾	\$4,477,124	(\$27,576)	\$4,449,548	(\$117,835)	\$4,331,714
4	Allowance for Working Capital ⁽¹⁾	\$303,462	\$3,247	\$306,709	\$2,765	\$309,474
5	Total Rate Base	\$4,780,587	(\$24,329)	\$4,756,258	(\$115,070)	\$4,641,188

(1) Allowance for Working Capital - Derivation

6	Controllable Expenses	\$753,157	\$16,738	\$769,895	\$ -	\$769,895
7	Cost of Power	\$3,293,006	\$26,558	\$3,319,565	\$36,862	\$3,356,427
8	Working Capital Base	\$4,046,164	\$43,296	\$4,089,460	\$36,862	\$4,126,322
9	Working Capital Rate % ⁽¹⁾	7.50%	0.00%	7.50%	0.00%	7.50%
10	Working Capital Allowance	\$303,462	\$3,247	\$306,709	\$2,765	\$309,474

Notes

(1) Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2021 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.



Revenue Requirement Workform (RRWF) for 2023 Filers

Utility Income

Line No.	Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Settlement Agreement
Operating Revenues:						
1	Distribution Revenue (at Proposed Rates)	\$1,165,281	\$12,793	\$1,178,074	\$47,773	\$1,225,848
2	Other Revenue ⁽¹⁾	\$48,750	(\$2,629)	\$46,121	\$ -	\$46,121
3	Total Operating Revenues	\$1,214,031	\$10,164	\$1,224,195	\$47,773	\$1,271,968
Operating Expenses:						
4	OM+A Expenses	\$753,157	\$16,738	\$769,895	\$ -	\$769,895
5	Depreciation/Amortization	\$180,507	\$11,484	\$191,991	(\$3,424)	\$188,568
6	Property taxes	\$ -	\$ -	\$ -	\$ -	\$ -
7	Capital taxes	\$ -	\$ -	\$ -	\$ -	\$ -
8	Other expense	\$ -	\$ -	\$ -	\$ -	\$ -
9	Subtotal (lines 4 to 8)	\$933,664	\$28,222	\$961,886	(\$3,424)	\$958,463
10	Deemed Interest Expense	\$95,669	(\$487)	\$95,182	\$40,545	\$135,727
11	Total Expenses (lines 9 to 10)	\$1,029,333	\$27,735	\$1,057,069	\$37,121	\$1,094,190
12	Utility income before income taxes	\$184,698	(\$17,572)	\$167,126	\$10,652	\$177,779
13	Income taxes (grossed-up)	\$19,099	(\$16,730)	\$2,369	\$1,546	\$3,915
14	Utility net income	\$165,600	(\$842)	\$164,757	\$9,107	\$173,864

Notes

Other Revenues / Revenue Offsets

(1)	Specific Service Charges	\$7,304	\$395	\$7,699	\$ -	\$7,699
	Late Payment Charges	\$11,450	\$ -	\$11,450	\$ -	\$11,450
	Other Distribution Revenue	\$21,996	(\$3,024)	\$18,972	\$ -	\$18,972
	Other Income and Deductions	\$8,000	\$ -	\$8,000	\$ -	\$8,000
	Total Revenue Offsets	\$48,750	(\$2,629)	\$46,121	\$ -	\$46,121



Revenue Requirement Workform (RRWF) for 2023 Filers

Taxes/PILs

Line No.	Particulars	Application	Interrogatory Responses	Settlement Agreement
<u>Determination of Taxable Income</u>				
1	Utility net income before taxes	\$165,600	\$164,757	\$173,766
2	Adjustments required to arrive at taxable utility income	(\$28,152)	(\$147,640)	(\$145,647)
3	Taxable income	<u>\$137,448</u>	<u>\$17,117</u>	<u>\$28,119</u>
<u>Calculation of Utility income Taxes</u>				
4	Income taxes	\$16,769	\$2,080	\$3,437
6	Total taxes	<u>\$16,769</u>	<u>\$2,080</u>	<u>\$3,437</u>
7	Gross-up of Income Taxes	\$2,330	\$289	\$478
8	Grossed-up Income Taxes	<u>\$19,099</u>	<u>\$2,369</u>	<u>\$3,915</u>
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	<u>\$19,099</u>	<u>\$2,369</u>	<u>\$3,915</u>
10	Other tax Credits	\$ -	\$ -	\$ -
<u>Tax Rates</u>				
11	Federal tax (%)	9.00%	9.00%	9.00%
12	Provincial tax (%)	3.20%	3.20%	3.20%
13	Total tax rate (%)	<u>12.20%</u>	<u>12.20%</u>	<u>12.20%</u>

Notes



Revenue Requirement Workform (RRWF) for 2023 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capitalization Ratio		Cost Rate	Return
Initial Application					
		(%)	(\$)	(%)	(\$)
	Debt				
1	Long-term Debt	56.00%	\$2,677,129	3.49%	\$93,432
2	Short-term Debt	4.00%	\$191,223	1.17%	\$2,237
3	Total Debt	60.00%	\$2,868,352	3.34%	\$95,669
	Equity				
4	Common Equity	40.00%	\$1,912,235	8.66%	\$165,600
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$1,912,235	8.66%	\$165,600
7	Total	100.00%	\$4,780,587	5.47%	\$261,269
Interrogatory Responses					
		(%)	(\$)	(%)	(\$)
	Debt				
1	Long-term Debt	56.00%	\$2,663,504	3.49%	\$92,956
2	Short-term Debt	4.00%	\$190,250	1.17%	\$2,226
3	Total Debt	60.00%	\$2,853,755	3.34%	\$95,182
	Equity				
4	Common Equity	40.00%	\$1,902,503	8.66%	\$164,757
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$1,902,503	8.66%	\$164,757
7	Total	100.00%	\$4,756,258	5.47%	\$259,939
Settlement Agreement					
		(%)	(\$)	(%)	(\$)
	Debt				
8	Long-term Debt	56.00%	\$2,599,065	4.88%	\$126,834
9	Short-term Debt	4.00%	\$185,648	4.79%	\$8,893
10	Total Debt	60.00%	\$2,784,713	4.87%	\$135,727
	Equity				
11	Common Equity	40.00%	\$1,856,475	9.36%	\$173,766
12	Preferred Shares	0.00%	\$ -	0.00%	\$ -
13	Total Equity	40.00%	\$1,856,475	9.36%	\$173,766
14	Total	100.00%	\$4,641,188	6.67%	\$309,493

Notes



Revenue Requirement Workform (RRWF) for 2023 Filers

Revenue Deficiency/Sufficiency

Line No.	Particulars	Initial Application		Interrogatory Responses		Settlement Agreement	
		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		(\$124,034)		(\$111,232)		(\$63,573)
2	Distribution Revenue	\$1,289,315	\$1,289,315	\$1,289,315	\$1,289,307	\$1,289,315	\$1,289,421
3	Other Operating Revenue	\$48,750	\$48,750	\$46,121	\$46,121	\$46,121	\$46,121
	Offsets - net						
4	Total Revenue	<u>\$1,338,065</u>	<u>\$1,214,031</u>	<u>\$1,335,436</u>	<u>\$1,224,195</u>	<u>\$1,335,436</u>	<u>\$1,271,968</u>
5	Operating Expenses	\$933,664	\$933,664	\$961,886	\$961,886	\$958,463	\$958,463
6	Deemed Interest Expense	\$95,669	\$95,669	\$95,182	\$95,182	\$135,727	\$135,727
8	Total Cost and Expenses	<u>\$1,029,333</u>	<u>\$1,029,333</u>	<u>\$1,057,069</u>	<u>\$1,057,069</u>	<u>\$1,094,190</u>	<u>\$1,094,190</u>
9	Utility Income Before Income Taxes	\$308,732	\$184,698	\$278,367	\$167,126	\$241,246	\$177,779
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$28,152)	(\$28,152)	(\$147,640)	(\$147,640)	(\$145,647)	(\$145,647)
11	Taxable Income	<u>\$280,580</u>	<u>\$156,546</u>	<u>\$130,727</u>	<u>\$19,486</u>	<u>\$95,599</u>	<u>\$32,132</u>
12	Income Tax Rate	12.20%	12.20%	12.20%	12.20%	12.20%	12.20%
13	Income Tax on Taxable Income	\$34,231	\$19,099	\$15,949	\$2,377	\$11,663	\$3,920
14	Income Tax Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Utility Net Income	<u>\$274,501</u>	<u>\$165,600</u>	<u>\$262,419</u>	<u>\$164,757</u>	<u>\$229,583</u>	<u>\$173,864</u>
16	Utility Rate Base	\$4,780,587	\$4,780,587	\$4,756,258	\$4,756,258	\$4,641,188	\$4,641,188
17	Deemed Equity Portion of Rate Base	\$1,912,235	\$1,912,235	\$1,902,503	\$1,902,503	\$1,856,475	\$1,856,475
18	Income/(Equity Portion of Rate Base)	14.36%	8.66%	13.79%	8.66%	12.37%	9.37%
19	Target Return - Equity on Rate Base	8.66%	8.66%	8.66%	8.66%	9.36%	9.36%
20	Deficiency/Sufficiency in Return on Equity	5.70%	0.00%	5.13%	0.00%	3.01%	0.01%
21	Indicated Rate of Return	7.74%	5.47%	7.52%	5.47%	7.87%	6.67%
22	Requested Rate of Return on Rate Base	5.47%	5.47%	5.47%	5.47%	6.67%	6.67%
23	Deficiency/Sufficiency in Rate of Return	2.28%	0.00%	2.05%	0.00%	1.20%	0.00%
24	Target Return on Equity	\$165,600	\$165,600	\$164,757	\$164,757	\$173,766	\$173,766
25	Revenue Deficiency/(Sufficiency)	(\$108,902)	\$ -	(\$97,662)	\$1	(\$55,817)	\$98
26	Gross Revenue Deficiency/(Sufficiency)	<u>(\$124,034) ⁽¹⁾</u>		<u>(\$111,232) ⁽¹⁾</u>		<u>(\$63,573) ⁽¹⁾</u>	

Notes:

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



Revenue Requirement Workform (RRWF) for 2023 Filers

Revenue Requirement

Line No.	Particulars	Application	Interrogatory Responses	Settlement Agreement
1	OM&A Expenses	\$753,157	\$769,895	\$769,895
2	Amortization/Depreciation	\$180,507	\$191,991	\$188,568
3	Property Taxes	\$ -		
5	Income Taxes (Grossed up)	\$19,099	\$2,369	\$3,915
6	Other Expenses	\$ -		
7	Return			
	Deemed Interest Expense	\$95,669	\$95,182	\$135,727
	Return on Deemed Equity	\$165,600	\$164,757	\$173,766
8	Service Revenue Requirement (before Revenues)	<u>\$1,214,031</u>	<u>\$1,224,194</u>	<u>\$1,271,870</u>
9	Revenue Offsets	\$48,750	\$46,121	\$46,121
10	Base Revenue Requirement (excluding Transformer Ownership Allowance credit adjustment)	<u>\$1,165,281</u>	<u>\$1,178,074</u>	<u>\$1,225,750</u>
11	Distribution revenue	\$1,165,281	\$1,178,074	\$1,225,848
12	Other revenue	\$48,750	\$46,121	\$46,121
13	Total revenue	<u>\$1,214,031</u>	<u>\$1,224,195</u>	<u>\$1,271,968</u>
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	<u>\$ -</u>	<u>\$1</u>	<u>\$98</u>

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application	Interrogatory Responses	Δ% ⁽²⁾	Settlement Agreement	Δ% ⁽²⁾
Service Revenue Requirement	\$1,214,031	\$1,224,194	0.84%	\$1,271,870	(100.00%)
Grossed-Up Revenue					
Deficiency/(Sufficiency)	(\$124,034)	(\$111,232)	(10.32%)	(\$63,573)	(100.00%)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$1,165,281	\$1,178,074	1.10%	\$1,225,750	(100.00%)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	(\$124,034)	(\$111,241)	(10.31%)	(\$63,468)	(100.00%)

Notes

⁽¹⁾ Line 11 - Line 8

⁽²⁾ Percentage Change Relative to Initial Application



Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2023 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.

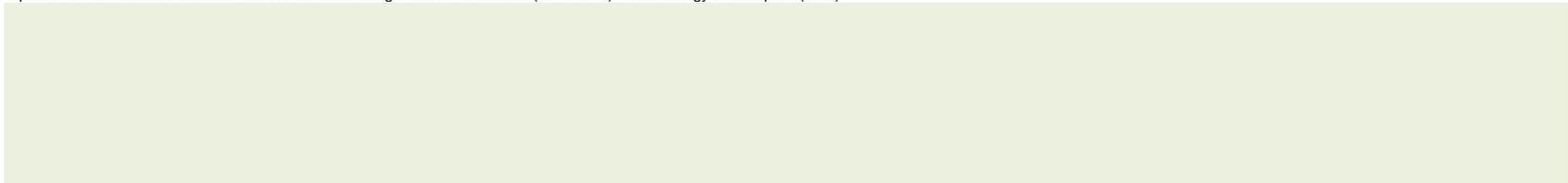
The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-I** should be incorporated into the entries. The inputs 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:		Settlement Agreement			Interrogatory Responses			Settlement Agreement		
Customer Class		Initial Application			Interrogatory Responses			Settlement Agreement		
Input the name of each customer class.		Customer / Connections	kWh	kW/kVA ⁽¹⁾	Customer / Connections	kWh	kW/kVA ⁽¹⁾	Customer / Connections	kWh	kW/kVA ⁽¹⁾
		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	2,345	20,126,172	-	2,345	20,150,710	-	2,345	20,274,072	-
2	General Service < 50 kW	165	4,617,010	-	165	4,620,558	-	165	4,620,092	-
3	General Service > 50 to 4999 kW	9	3,952,566	11,414	9	3,960,295	11,414	9	3,959,895	11,413
4	Unmetered Scattered Load	17	93,084	-	17	88,338	-	17	88,338	-
5	Street Lighting	633	241,169	655	633	242,877	655	633	234,836	655
6	Micro Fit	-								
7	other									
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
Total		3,168	29,030,001	12,069		29,062,778	12,069		29,177,234	12,068

Notes:

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





Revenue Requirement Workform (RRWF) for 2023 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: **Settlement Agreement**

A) Allocated Costs

Name of Customer Class ⁽³⁾	Costs Allocated from Previous Study ⁽¹⁾	%	Allocated Class Revenue Requirement ⁽¹⁾	%
<i>From Sheet 10. Load Forecast</i>				
(7A)				
1 Residential	\$ 687,249	77.36%	\$ 1,037,556	81.58%
2 General Service < 50 kW	\$ 107,690	12.12%	\$ 131,216	10.32%
3 General Service > 50 to 4999 kW	\$ 69,528	7.83%	\$ 73,047	5.74%
4 Unmetered Scattered Load	\$ 5,498	0.62%	\$ 2,814	0.22%
5 Street Lighting	\$ 18,461	2.08%	\$ 27,230	2.14%
6 Micro Fit				
7 other				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
Total	\$ 888,426	100.00%	\$ 1,271,863	100.00%
Service Revenue Requirement (from Sheet 9)			\$ 1,271,870.30	

- (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	\$ 1,053,554	\$ 1,001,606	\$ 1,001,576	\$ 38,435
2	General Service < 50 kW	\$ 130,541	\$ 124,104	\$ 124,108	\$ 5,117
3	General Service > 50 to 4999 kW	\$ 67,337	\$ 64,017	\$ 66,413	\$ 549
4	Unmetered Scattered Load	\$ 5,919	\$ 5,627	\$ 3,257	\$ 120
5	Street Lighting	\$ 31,964	\$ 30,388	\$ 30,388	\$ 1,900
6	Micro Fit				
7	other				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
	Total	\$ 1,289,315	\$ 1,225,742	\$ 1,225,742	\$ 46,121

- (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: 2018 %	(7C + 7E) / (7A) %	(7D + 7E) / (7A) %	
1 Residential	107.00%	100.24%	100.24%	85 - 115
2 General Service < 50 kW	88.00%	98.48%	98.48%	
3 General Service > 50 to 4999 kW	103.00%	88.39%	91.67%	
4 Unmetered Scattered Load	70.00%	204.22%	119.99%	
5 Street Lighting	70.00%	118.57%	118.57%	
6 Micro Fit				
7 other				
8				
9				
10				
11				
12				
13				
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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 ⁽¹¹⁾

Name of Customer Class	Test Year	Proposed Revenue-to-Cost Ratio		Policy Range
		Price Cap IR Period 1	Price Cap IR Period 2	
1 Residential	100.24%	100.24%	100.24%	85 - 115
2 General Service < 50 kW	98.48%	98.48%	98.48%	
3 General Service > 50 to 4999 kW	91.67%	91.67%	91.67%	
4 Unmetered Scattered Load	119.99%	119.99%	119.99%	
5 Street Lighting	118.57%	118.57%	118.57%	
6 Micro Fit				
7 other				
8				
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(11) The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2021 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 2022 and 2023 Price Cap IR models, as necessary. For 2022 and 2023, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (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'.

Revenue Requirement Workform (RRWF) for 2023 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: Settlement Agreement					Class Allocated Revenues			Fixed / Variable Splits ²			Distribution Rates				Revenue Reconciliation		
Customer and Load Forecast					From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design			Percentage to be entered as a fraction between 0 and 1		Transformer Ownership Allowance ¹ (\$)	Monthly Service Charge		Volumetric Rate		MSC Revenues	Volumetric revenues	Distribution Revenues less Transformer Ownership
Customer Class	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable		Rate	No. of decimals	Rate	No. of decimals			
From sheet 10. Load Forecast																	
1	Residential	kWh	2,345	20,274,072	\$ 1,001,576	\$ 1,001,576	\$ 0	100.00%	0.00%	\$35.59	2	\$0.0000	/kWh	4	\$ 1,001,495.46	\$ -	\$ 1,001,495.46
2	General Service < 50 kW	kWh	165	4,620,092	\$ 124,108	\$ 41,970	\$ 82,138	33.82%	66.18%	\$21.24		\$0.0178	/kWh		\$ 41,971.68	\$ 82,237.6408	\$ 124,209.33
3	General Service > 50 to 4999 kW	kW	9	3,959,895	\$ 66,413	\$ 19,834	\$ 46,578	29.87%	70.13%	\$192.03		\$4.0811	/kW		\$ 19,834.72	\$ 46,578.3007	\$ 66,413.02
4	Unmetered Scattered Load	kWh	17	88,338	\$ 3,257	\$ 2,499	\$ 758	76.73%	23.27%	\$12.56		\$0.0086	/kWh		\$ 2,499.69	\$ 759,7096	\$ 3,259.40
5	Street Lighting	kW	633	234,836	\$ 30,388	\$ 17,051	\$ 13,337	56.11%	43.89%	\$2.24		\$20.3613	/kW		\$ 17,023.55	\$ 13,336.6516	\$ 30,360.20
6	Micro Ft														\$ -	\$ -	\$ -
7	other														\$ -	\$ -	\$ -
8															\$ -	\$ -	\$ -
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Total Transformer Ownership Allowance										\$ -				Total Distribution Revenues			\$ 1,225,737.41
														Base Revenue Requirement			\$ 1,225,749.70
														Difference			\$ -12.29
														% Difference			-0.001%

Notes:

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

² 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 2023 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.

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

⁽²⁾ Short description of change, issue, etc.

Summary of Proposed Changes

Reference ⁽¹⁾	Item / Description ⁽²⁾	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	\$ 261,269	5.47%	\$ 4,780,587	\$ 4,046,164	\$ 303,462	\$ 180,507	\$ 19,099	\$ 753,157	\$ 1,214,031	\$ 48,750	\$ 1,165,281	\$ 124,034

Appendix D - Cost Allocation

2023 Cost Allocation Model

EB-2021-XXXX

Sheet 01 Revenue to Cost Summary Worksheet -

Instructions:

Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

Rate Base Assets	Total	1	2	3	7	9
		Residential	GS <50	GS > 50 to 4999 kW	Street Light	Unmetered Scattered Load
crev Distribution Revenue at Existing Rates	\$1,289,315	\$1,053,554	\$130,541	\$67,337	\$31,964	\$5,919
mi Miscellaneous Revenue (mi)	\$46,121	\$38,435	\$5,117	\$549	\$1,900	\$120
Miscellaneous Revenue Input equals Output						
Total Revenue at Existing Rates	\$1,335,436	\$1,091,989	\$135,658	\$67,886	\$33,864	\$6,039
Factor required to recover deficiency (1 + D)	0.9507					
Distribution Revenue at Status Quo Rates	\$1,225,742	\$1,001,606	\$124,104	\$64,017	\$30,388	\$5,627
Miscellaneous Revenue (mi)	\$46,121	\$38,435	\$5,117	\$549	\$1,900	\$120
Total Revenue at Status Quo Rates	\$1,271,863	\$1,040,041	\$129,222	\$64,566	\$32,287	\$5,747
Expenses						
di Distribution Costs (di)	\$59,190	\$42,792	\$8,036	\$6,712	\$1,569	\$81
cu Customer Related Costs (cu)	\$318,544	\$285,315	\$22,483	\$2,003	\$7,702	\$1,041
ad General and Administration (ad)	\$392,161	\$339,749	\$32,042	\$9,616	\$9,600	\$1,154
dep Depreciation and Amortization (dep)	\$188,568	\$140,701	\$24,810	\$18,932	\$3,893	\$232
INPUT PILs (INPUT)	\$3,907	\$2,855	\$547	\$446	\$56	\$4
INT Interest	\$135,727	\$99,174	\$18,988	\$15,497	\$1,934	\$133
Total Expenses	\$1,098,097	\$910,586	\$106,906	\$53,206	\$24,754	\$2,644
Direct Allocation	\$0	\$0	\$0	\$0	\$0	\$0
NI Allocated Net Income (NI)	\$173,766	\$126,969	\$24,310	\$19,840	\$2,477	\$170
Revenue Requirement (includes NI)	\$1,271,863	\$1,037,556	\$131,216	\$73,047	\$27,230	\$2,814
Revenue Requirement Input equals Output						
Rate Base Calculation						
Net Assets						
dp Distribution Plant - Gross	\$8,725,937	\$6,427,924	\$1,164,160	\$927,298	\$194,810	\$11,745
gp General Plant - Gross	\$340,444	\$248,807	\$46,379	\$37,824	\$7,010	\$424
accum dep Accumulated Depreciation	(\$2,713,355)	(\$2,033,491)	(\$351,592)	(\$264,781)	(\$59,718)	(\$3,774)
co Capital Contribution	(\$2,021,312)	(\$1,478,087)	(\$253,181)	(\$205,954)	(\$79,950)	(\$4,141)
Total Net Plant	\$4,331,714	\$3,165,153	\$605,766	\$494,387	\$62,153	\$4,255
Directly Allocated Net Fixed Assets	\$0	\$0	\$0	\$0	\$0	\$0
COP Cost of Power (COP)	\$3,356,427	\$2,335,274	\$530,303	\$453,813	\$26,913	\$10,124
OM&A Expenses	\$769,895	\$667,856	\$62,562	\$18,331	\$18,871	\$2,276
Directly Allocated Expenses	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$4,126,322	\$3,003,131	\$592,865	\$472,144	\$45,783	\$12,400
Working Capital	\$309,474	\$225,235	\$44,465	\$35,411	\$3,434	\$930
Total Rate Base	\$4,641,188	\$3,390,388	\$650,231	\$529,798	\$65,586	\$5,185
Rate Base Input equals Output						
Equity Component of Rate Base	\$1,856,475	\$1,356,155	\$260,092	\$211,919	\$26,235	\$2,074

2023 Cost Allocation Model

EB-2021-XXXX

Sheet O1 Revenue to Cost Summary Worksheet -

Instructions:

Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

Rate Base Assets	Total	1 Residential	2 GS <50	3 GS > 50 to 4999 kW	7 Street Light	9 Unmetered Scattered Load
	Net Income on Allocated Assets	\$173,766	\$129,455	\$22,315	\$11,359	\$7,534
Net Income on Direct Allocation Assets	\$0	\$0	\$0	\$0	\$0	\$0
Net Income	\$173,766	\$129,455	\$22,315	\$11,359	\$7,534	\$3,103
RATIOS ANALYSIS						
REVENUE TO EXPENSES STATUS QUO%	100.00%	100.24%	98.48%	88.39%	118.57%	204.22%
EXISTING REVENUE MINUS ALLOCATED COSTS	\$63,573	\$54,434	\$4,442	(\$5,161)	\$6,633	\$3,225
	Deficiency Input equals Output					
STATUS QUO REVENUE MINUS ALLOCATED COSTS	\$0	\$2,486	(\$1,995)	(\$8,481)	\$5,057	\$2,933
RETURN ON EQUITY COMPONENT OF RATE BASE	9.36%	9.55%	8.58%	5.36%	28.72%	149.63%