



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

DECISION AND ORDER

EB-2017-0048

HYDRO HAWKESBURY INC.

**Application for electricity distribution rates and other charges
beginning January 1, 2018**

BEFORE: Michael Janigan
Presiding Member

Rumina Velshi
Member

February 22, 2018

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SCHEDULE B: PRESENTATION OF SETTLEMENT PROPOSAL

1 INTRODUCTION AND SUMMARY

This is a decision of the Ontario Energy Board (OEB) on an application filed by Hydro Hawkesbury Inc. (Hydro Hawkesbury). Hydro Hawkesbury filed an application with the OEB to change its electricity distribution rates effective January 1, 2018 (the Application). Under the *Ontario Energy Board Act, 1998*, distributors must apply to the OEB to change the rates they charge their customers.

Hydro Hawkesbury provides electricity distribution services to approximately 5,500 customers in the Town of Hawkesbury.

Hydro Hawkesbury asked the OEB to approve its rates for five years using the Price-Cap Incentive rate-setting option available with the *“Renewed Regulatory Framework for Electricity Distributors: a Performance Based Approach”* (RRF). With this option, rates are approved for 2018, and then rates are adjusted mechanically for the next four years through a price cap adjustment based on inflation and the OEB’s assessment of Hydro Hawkesbury’s efficiency.

Hydro Hawkesbury and the School Energy Coalition (SEC) and the Vulnerable Energy Consumer Coalition (VECC), the intervenors in this proceeding (the parties), participated in a settlement conference and filed a settlement proposal with the OEB on January 8, 2018 which addressed all issues in the proceeding. The parties presented the settlement proposal to the OEB on February 15, 2018. Following the presentation, Hydro Hawkesbury filed a revised settlement proposal with the OEB on February 20, 2018, to address the matters discussed below.

The settlement proposal reduces the applied for 2018 base revenue requirement of \$1,774,699 to \$1,744,140 (by \$44,239). It also reduces the grossed up revenue deficiency from \$163,342 to \$120,493 (by approximately 26.2%). In the settlement proposal, the parties acknowledge that the level of planned capital expenditures and the rationale for planning and pacing choices are consistent with the values as set out in the Business Plan presented in the Application.¹ The OEB notes that the revisions to the settlement proposal do not affect these aspects of the settlement proposal originally filed on January 8, 2018.

For a typical residential customer with monthly consumption of 750 kWh, the total bill impacts under the Settlement Proposal would be a decrease by about \$23.51 per month

¹ EB-2017-0048, Settlement Proposal, Page 13

– a percentage decrease of about 24.84%. (Without the refund in the test year related to a new 110 kV substation, the typical bill would have been a decrease of about \$1.91 per month or a percentage decrease of 2.0%).

The OEB finds that these outcomes benefit consumers and are compatible with the operational effectiveness and other performance objectives of the RRF and the *Handbook for Utility Rate Applications*.

The OEB approves the settlement proposal.

2 THE PROCESS

The OEB's policy for rate setting is set out in the RRF. The RRF provides the distributor with performance-based rate application options that support the cost-effective planning and efficient operation of a distribution network. This framework provides an appropriate alignment between a sustainable, financially viable electricity sector and the expectations of customers for reliable service at a reasonable price.

Hydro Hawkesbury filed an application on July 12, 2017 for 2018 rates under the Price-Cap Incentive rate-setting option of the RRF. The OEB issued a Notice of Application on August 23, 2017, inviting parties to apply for intervenor status. SEC, VECC and Capredoni Enterprises Ltd. (CEL) applied for intervenor status. The OEB granted intervenor status to SEC and VECC but did not approved CEL's request. OEB staff also participated in this proceeding.

On September 18, 2016, the OEB held a community meeting in the Town of Hawkesbury. OEB staff and Hydro Hawkesbury made presentations at the meeting. A summary of the community meeting was posted to the record of the proceeding. The comments during the community meeting focused on the bill impacts in the test year and rate increases in subsequent years. Customer also inquired about the impact of a transformer station upgrade on rates.

The OEB issued Procedural Order No.1 on October 16, 2017. This order established, among other things, the timetable for a written interrogatory discovery process, the filing of a proposed issues list and a settlement conference.

The settlement conference was held on November 22, 2017. Hydro Hawkesbury, SEC and VECC resolved all issues and filed the settlement proposal with the OEB on January 8, 2018. OEB staff filed its submissions regarding the settlement proposal on January 25, 2018.

Hydro Hawkesbury presented the parties' settlement proposal to the OEB on February 15, 2018. A copy of the presentation material was filed as Exhibit K1.1. During the presentation day, Hydro Hawkesbury noted that updates to the presentation of the settlement proposal were required and committed to file an updated version of Exhibit K1.1. The OEB also requested that the parties file a revised settlement proposal – specifically, the OEB requested that the bill impact summary shown in Table 2 of the settlement proposal be revised to include a column setting out the consumption or demand values (as applicable) to which the impacts applied; and that the settlement proposal indicate the revision date. Hydro Hawkesbury filed an updated settlement

proposal (attached as Schedule A) and a revised version of Exhibit K1.1 (attached as Schedule B) on February 20, 2018.

3 DECISIONS ON THE ISSUES

The settlement proposal filed by the parties addressed all elements of the OEB's approved issues list for this proceeding, and represented a full settlement of all the issues. Through the settlement process, the parties agreed to certain reductions to Hydro Hawkesbury's proposed capital expenditures and operating, maintenance and administrative costs.

As part of its presentation of the settlement proposal, Hydro Hawkesbury noted that the rate decrease, in particular for the residential rate class, is a result of a refund related to a new 110kV substation. A value of \$1.5 million associated with this asset was included in rate base as part of Hydro Hawkesbury's 2014 cost of service (EB-2013-0139) decision. Hydro Hawkesbury's rates over the last four years reflected capital and operational costs of this asset. Due to delays caused by changing project management and missing specifications, the substation was not put into rate base in 2017 causing an over-collection through rates. As part of this settlement proposal, the parties agreed to refund a quantum of \$305,798 to rectify this over-collection over a one year period.

Findings

The OEB finds that the settlement proposal, including the refund related to the 110kV substation, benefits consumers and produces outcomes that are consistent with the operational effectiveness and other performance objectives of the RRF.

The OEB approves the settlement proposal (attached as Schedule A).

4 IMPLEMENTATION

Hydro Hawkesbury's new rates are to be effective January 1, 2018 and implemented March 1, 2018.

The OEB expects Hydro Hawkesbury to file detailed supporting material showing the impact of this Decision on the overall revenue requirement, the allocation of revenues between classes and the derivation of base rates.

Hydro Hawkesbury shall calculate foregone revenue and rate riders to recover the difference between the effective date of January 1, 2018 and the implementation date of March 1, 2018.

SEC and VECC are eligible for cost awards in this proceeding. The OEB has made provision in this Decision for these intervenors to file their cost claims following the OEB's issuance of the final Rate Order. The OEB will issue its cost awards decision after the following steps are completed.

5 ORDER

THE ONTARIO ENERGY BOARD ORDERS THAT:

1. Hydro Hawkesbury Inc. shall file with the OEB and forward to intervenors a draft rate order with a proposed Tariff of Rates and Charges attached that reflects the OEB's findings in this Decision and Order, within **3 days** of the date of this Decision and Order. Hydro Hawkesbury Inc. shall also include customer rate impacts and detailed information in support of the calculation of final rates in the draft rate order.
2. Intervenors and OEB staff shall file any comments on the draft rate order with the OEB, and forward to Hydro Hawkesbury Inc., within **3 days** of the date of filing of the draft rate order.
3. Hydro Hawkesbury Inc. shall file with the OEB and forward to intervenors, responses to any comments on its draft Rate Order within **2 days** of the date of receipt of the submission.
4. Intervenors shall submit their cost claims no later than **7 days** from the date of issuance of this Decision and Order.
5. Hydro Hawkesbury Inc. shall file with the OEB and forward to Intervenors any objections to the claimed costs within **17 days** from the date of issuance of this Decision and Order.
6. Intervenors shall file with the OEB and forward to Hydro Hawkesbury Inc. any responses to any objections for cost claims within **24 days** from the date of issuance of this Decision and Order.
7. Hydro Hawkesbury Inc. shall pay the OEB's costs incidental to this proceeding upon receipt of the OEB's invoice.

All filings to the OEB must quote the file number, EB-2017-0048, filed through the Board's web portal at <https://www.pes.ontarioenergyboard.ca/eservice/>, and consist of two paper copies and one electronic copy in searchable / unrestricted PDF format. Filings must clearly state the sender's name, postal address and telephone number, fax number and e-mail address. Parties must use the document naming conventions and document submission standards outlined in the RESS Document Guideline found at

<http://www.oeb.ca/OEB/Industry>. If the web portal is not available parties may email their documents to the address below. Those who do not have internet access are required to submit all filings on a USB flash drive in PDF format, along with two paper copies. Those who do not have computer access are required to file seven paper copies.

All communications should be directed to the attention of the Board Secretary at the address below, and be received no later than 4:45 p.m. on the required date.

With respect to distribution lists for all electronic correspondence and materials related to this proceeding, parties must include the Case Manager, Birgit Armstrong at birgit.armstrong@oeb.ca and OEB Counsel, James Sidlofsky at james.sidlofsky@oeb.ca.

ADDRESS

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DATED at Toronto February 22, 2018

ONTARIO ENERGY BOARD

Original Signed By

Kirsten Walli
Board Secretary

SCHEDULE A: SETTLEMENT PROPOSAL
DECISION AND ORDER
HYDRO HAWKESBURY-ELECTRIC SYSTEM CORP.
EB-2017-0048
FEBRUARY 22, 2018

Hydro Hawkesbury Inc.
2018 Cost of Service Application
Settlement Proposal
EB-2017-0048
Originally Filed: January 8, 2018
Revised: February 20, 2018

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LIST OF ATTACHMENTS

- A. Revenue Requirement Workform**
- B. 2017 and 2018 Fixed Asset Continuity Schedule**
- C. Bill Impacts**
- D. Tariff Sheet**
- E. Cost of Power Calculations**

Note:

Hydro Hawkesbury Inc. has filed revised models as evidence to support this Settlement Proposal. The models have been filed through the OEB's e-filing service and include:

- a) Filing Requirements Chapter 2 Appendices
- b) 2018 Revenue Requirement Workform
- c) 2018 Test Year Income Tax PILs Model
- d) 2018 Cost Allocation Model
- e) 2018 Load Forecast Model – Wholesale
- f) 2018 EDDVAR Continuity Schedule
- g) 2018 RTSR Model
- h) LRAMVA Model
- i) Fixed Asset Continuity Schedule
- j) CA Demand Data Model
- k) Bill Impact Model
- l) Tariff Sheet Model
- m) Benchmarking Forecast Model

SETTLEMENT PROPOSAL

Hydro Hawkesbury Inc. (the “Applicant” or “HHI”) filed a Cost of Service application with the Ontario Energy Board (the “OEB”) on July 12, 2017 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 HHI charges for electricity distribution, to be effective January 1, 2018 (OEB file number EB-2017-0048) (the “Application”).

The OEB issued a Letter of Direction and Notice of Application on August 22, 2017. In Procedural Order No. 1, dated October 10, 2017, the OEB approved VECC and SEC for intervenor status as well as prescribing dates for the following: written interrogatories from OEB staff, VECC, and SEC; HHI’s responses to interrogatories; a settlement conference; and various other elements in the proceeding.

Following the receipt of interrogatories, HHI filed its interrogatory responses with the OEB on November 13, 2017, with the remainder of the responses filed by November 21, 2017.

On November 17, 2017 OEB Staff submitted a proposed issues list as agreed to by the parties. On November 21, 2017 the OEB issued its decision on the proposed issues list, approving the list submitted by OEB staff as the final issues list (the “Issues List”).

The settlement conference was convened on November 22, 2017 in accordance with the OEB’s *Rules of Practice and Procedure* (the “Rules”) and the OEB’s *Practice Direction on Settlement Conferences* (the “Practice Direction”).

HHI and the following intervenors (the “Intervenors”), participated in the settlement conference:

- Vulnerable Energy Consumers Coalition (“VECC”);
- School Energy Coalition (“SEC”).

HHI and the Intervenors are collectively referred to below as the “Parties”.

Ontario Energy Board staff (“OEB staff”) also participated in the settlement conference. The role adopted by OEB staff is set out on page 5 of the Practice Direction. Although OEB staff is not a party to this Settlement Proposal, as noted in the Practice Direction, OEB staff that did participate in the settlement conference are bound by the same confidentiality and privilege rules that apply to the Parties to the proceeding.

This document is called a “Settlement Proposal” as this is a proposal by the Parties presented to the OEB to settle the issues in this proceeding. It is termed a proposal as between the Parties and the OEB. However, as between the Parties, and subject only to the OEB approval of this

Settlement Proposal, this document is intended to be a legal agreement, creating mutual obligations, and binding and enforceable in accordance with its terms. As set forth later in this Preamble, this agreement is subject to a condition subsequent, that if it is not accepted by the OEB in its entirety, then unless amended by the Parties it is null and void and of no further effect. In entering into this agreement, the Parties understand and agree that, pursuant to the Act, the OEB has exclusive jurisdiction with respect to the interpretation and enforcement of the terms hereof.

These settlement proceedings are subject to the rules relating to confidentiality and privilege contained in the Practice Direction. The Parties acknowledge that this settlement proceeding is confidential in accordance with the OEB's Practice Direction on settlement conferences. The Parties understand that confidentiality in that context does not have the same meaning as confidentiality in the OEB's Practice Direction on Confidential Filings, and the rules of that latter document do not apply. Instead, in this settlement conference, and in this Settlement Proposal, the specific rules with respect to confidentiality and privilege set out in the Practice Direction, as amended on October 28, 2016, apply. Parties have interpreted the revised Practice Direction to mean that the documents and other information provided during the settlement conference, the discussion of each issue, the offers and counter-offers, and the negotiations leading to the settlement – or not – of each issue during the settlement conference are strictly privileged and without prejudice. None of the foregoing is admissible as evidence in this proceeding, or otherwise, with one exception, the need to resolve a subsequent dispute over the interpretation of any provision of this Settlement Proposal. Further, the Parties shall not disclose those documents or other information to persons who were not attendees at the settlement conference. However, the Parties agree that "attendees" is deemed to include, in this context, persons who were not physically in attendance at the settlement conference but were a) any persons or entities that the Parties engage to assist them with the settlement conference, and b) any persons or entities from whom they seek instructions with respect to the negotiations; in each case provided that any such persons or entities have agreed to be bound by the same confidentiality provisions.

This Settlement Proposal provides a brief description of each of the settled issues, as applicable, together with references to the evidence. The Parties agree that references to the "evidence" in this Settlement Proposal shall, unless the context otherwise requires, include a) additional information included by the Parties in this Settlement Proposal, and b) the Appendices to this document. The supporting Parties for each settled issue, as applicable, agree that the evidence in respect of that settled issue, as applicable, is sufficient in the context of the overall settlement to support the proposed settlement, and the sum of the evidence in this proceeding provides an appropriate evidentiary record to support acceptance by the OEB of this Settlement Proposal. The Parties agree that references to the evidence in this Settlement Proposal shall, unless the context otherwise requires, include, in addition to the Application, the responses to interrogatories, responses to clarification questions and undertakings, and all other

components of the record up to and including the date hereof, including additional information included by the Parties in this Settlement Proposal and the Attachments to this document.

Included with the Settlement Proposal are Attachments that provide further support for the proposed settlement. The Parties acknowledge that the Attachments were prepared by HHI. While the Intervenors have reviewed the Attachments, the Intervenors are relying on the accuracy of the Attachments and the underlying evidence in entering into this Settlement Proposal.

For ease of reference, this Settlement Proposal follows the format of the final Approved Issues List.

The Parties have reached a full settlement with respect to the issues in this proceeding.

According to the Practice Direction (p.4), the Parties must consider whether a Settlement Proposal should include an appropriate adjustment mechanism for any settled issue that may be affected by external factors. HHI is not proposing any such adjustments.

The Parties have settled the issues as a package, and none of the parts of this Settlement Proposal are severable. If the OEB does not accept this Settlement Proposal in its entirety, then there is no settlement (unless the Parties agree in writing that any part(s) of this Settlement Proposal that the OEB accepts may continue as a valid settlement without inclusion of any part(s) that the OEB does not accept).

If the OEB directs the Parties to make reasonable efforts to revise the Settlement Proposal, the Parties agree to use reasonable efforts to discuss any potential revisions, but no Party will be obligated to accept any proposed revision. The Parties agree that all the Parties must agree with any revised Settlement Proposal as it relates to that issue, or take no position, prior to its resubmission to the OEB.

Unless stated otherwise, the settlement of any particular issue in this proceeding and the positions of the Parties in this Settlement Proposal are without prejudice to the rights of the Parties to raise the same issue and/or to take any position thereon in any other proceeding, whether or not HHI is a party to such proceeding, provided that no Party shall take a position that would result in the Settlement Proposal not applying in accordance with the terms contained herein.

SUMMARY

In reaching this settlement, the Parties have been guided by the Filing Requirements for 2018 rates and the Approved Issues List.

This Settlement Proposal reflects a full settlement of the issues in the proceeding. The Parties have described below, in detail, areas where they have settled an issue by agreeing to adjustments to the application as updated.

The Parties note that this Settlement Proposal includes all tables, appendices and the live Excel models that represent the evidence in support of the settlement between the Parties at the time of filing the Settlement Proposal.

A Revenue Requirement Work Form, incorporating all terms that have been agreed to in this Proposal is filed with the Settlement Proposal. Through the settlement process, HHI has agreed to certain adjustments to its original 2018 Application filed July 12, 2017. The changes are described in the following sections.

HHI has provided the following Table 1 highlighting the changes to its Rate Base and Capital, Operating Expenses and Revenue Requirement from HHI's Application as filed as a result of interrogatories and this Settlement Proposal.

Table 1 - 2018 Revenue Requirement

	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
OM&A Expenses	\$1,210,114	\$1,210,114	\$0	\$1,175,114	-\$35,000
Amortization/Depreciation	\$280,878	\$280,878	\$0	\$281,068	\$190
Property Taxes	\$0	\$17,768	\$17,768	\$17,768	\$0
Capital Taxes	\$0	\$0	\$0	\$0	\$0
Income Taxes (Grossed up)	\$9,717	\$9,774	\$57	\$10,538	\$764
Other Expenses	\$0	\$0	\$0	\$0	\$0
Return					
Deemed Interest Expense	\$179,324	\$175,133	-\$4,191	\$166,848	-\$8,284
Return on Deemed Equity	\$302,560	\$302,929	\$369	\$307,020	\$4,091
Service Revenue Requirement (before Revenues)	\$1,982,593	\$1,996,596	\$14,003	\$1,958,356	-\$38,239
Revenue Offsets	\$207,894	\$208,216	\$322	\$214,216	\$6,000
Base Revenue Requirement	\$1,774,699	\$1,788,380	\$13,681	\$1,744,140	-\$44,239
Base Revenue Deficiency	\$163,342	\$188,290	\$24,948	\$120,493	-\$67,797

Based on the foregoing, and the evidence and rationale provided below, the Parties accept this Settlement Proposal as appropriate and recommend its acceptance.

Table 2 - 2018 Bill Impact Summary (Final) below illustrates the updated Bill Impacts based on the results of this Settlement Proposal.

Table 2 - 2018 Bill Impact Summary (Final)

RATE CLASSES / CATEGORIES (e.g.: Residential TOU, Residential Retailer)	Units	Sub-Total						Total	
		A		B		C		Total = C + pass-through charges + commodity + HST	
		\$	%	\$	%	\$	%	\$	%
Residential service classification - RPP	750 kWh	-\$21.02	-127.20%	-\$23.24	-114.10%	-\$22.71	-78.60%	-\$24.69	-24.80%
Residential service classification - non-RPP (retailer)	750 kWh	-\$21.02	-127.20%	-\$20.38	-94.80%	-\$20.38	-94.80%	-\$22.24	-19.60%
Residential service classification - RPP	313 kWh	-\$19.92	-139.50%	-\$20.24	-127.30%	-\$20.24	-127.30%	-\$21.60	-47.30%
Residential service classification - non-RPP (retailer)	313 kWh	-\$19.92	-139.50%	-\$19.05	-116.40%	-\$19.05	-116.40%	-\$20.35	-37.00%
General service less than 50 kw service classification - RPP	2000 kWh	-\$2.39	-8.40%	-\$9.73	-25.20%	-\$8.53	-14.40%	-\$11.19	-4.30%
General service 50 to 4,999 kw service classification - non-RPP (retailer)	240 kW	-\$166.92	-28.20%	-\$421.63	-64.80%	-\$358.82	-22.30%	-\$452.50	-8.50%
Unmetered scattered load service classification - non-RPP (retailer)	4600 kWh	-\$6.41	-26.10%	-\$25.51	-46.60%	-\$22.75	-22.30%	-\$31.26	-4.20%
Sentinel lighting service classification - non-RPP (other)	123 kWh	-\$71.73	-13.70%	-\$89.81	-15.70%	-\$89.81	-15.70%	-\$101.68	-15.30%
Street lighting service classification - non-RPP (other)	15,000 kWh	-\$2,104.62	-2.30%	-\$22,344.12	-24.00%	-\$22,344.12	-24.00%	-\$25,272.91	-23.60%

Subtotal A=Distribution Charges + LRAMVA

Subtotal B= Subtotal A+ Deferral and Variance Rate Riders + LV charges + Smart Meter Charges

Subtotal C= Subtotal B+ Transmission and Connection Charges

Total: Subtotal C +Pass-Through charges (WMS, RPP, SSS) + Commodity + HST

RRFE OUTCOMES

The Parties accept the Applicant's compliance with the Board's required outcomes as defined by the *Renewed Regulatory Framework for Electricity* (RRFE). For the purpose of the settlement of the issues in this proceeding, and subject to the adjustments noted in this Settlement Proposal, the Parties accept that HHI's proposed rates in the 2018 Test Year will, in all reasonably foreseeable circumstances, allow the Applicant to meet its obligations to its customers while maintaining its financial viability.

1 PLANNING

1.1 Capital

Is the level of planned capital expenditures appropriate and is the rationale for planning and pacing choices appropriate and adequately explained, giving due consideration to:

- Customer feedback and preferences;
- Productivity;
- Compatibility with historical expenditures;
- Compatibility with applicable benchmarks;
- Reliability and service quality;
- Impact on distribution rates;
- Trade-offs with OM&A spending;
- Government-mandated obligations;
- The objectives of Hydro Hawkesbury and its customers;
- The distribution system plan.

Full Settlement

HHI agreed, as part of the settlement, to update its 2017 projected capital expenses with actuals up to November 2017 plus projections for December 2017. The USoA accounts which saw a reduction in capital expenditure had longer depreciation periods while accounts that saw an increase had shorter depreciation periods which lead to a reduction of \$5,153 in capital expenditures and a marginal increase in depreciation expense. The revised balances for 2017 are supported by the continuity schedules filed at Attachment B of this document.

Subject to the inclusion of forecast capital contributions in the amount of \$10,000 relating to forecast connection related projects in 2018, the Parties accept the 2018 capital expenditures as being appropriate. The accounts which saw a reduction in capex had longer depreciation period while accounts that saw an increase had shorter depreciation period (i.e. Smart Meters)

The Parties acknowledge that HHI retains the full discretion to manage its capital spending in the Test Year and beyond in accordance with the actual operating conditions it confronts in any year. HHI's revised capital expenditures will be consistent with the values as set out in the Business Plan as presented in the application.

The parties also agree that HH will file an independent, third-party Asset Condition Assessment with its next rebasing application.

HHI is transitioning over the next year when its two remaining linemen retire to completely rely on external contractors to manage 100% of its capital and O&M activities. Currently, HHI does not have a formal service agreement with its primary contractor Sproule Inc. The Parties have agreed that HHI will enter into a service agreement with Sproule Inc. to formalize the terms of their working relationship within 1 year. HHI will file a copy of that agreement under the EB-2017-0048 docket number to confirm compliance with this term of the Settlement Proposal.

A summary of gross capital expenditures is presented in Table 3 - 2018 Gross Capital below.

Table 3 - 2018 Gross Capital Additions

	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Gross Assets					
2017 Gross Open Bal	\$6,990,656	\$6,990,656	\$0.00	\$6,990,656	\$0
2017 Additions	\$905,096	\$905,096	\$0.00	\$899,943	-\$5,153
2017 Disp/Ret	\$0	\$0	\$0.00	\$0	\$0
2017 Gross Close Bal	\$7,895,752	\$7,895,752	\$0.00	\$7,890,599	-\$5,153
Accumulated Depreciation					
2017 Open Bal	\$578,162	\$578,162	\$0.00	\$578,162	\$0
2017 Additions	\$204,766	\$204,766	\$0.00	\$204,926	\$160
2017 Disp/Ret	\$0	\$0	\$0.00	\$0	\$0
2017 Close Bal	\$782,929	\$782,929	\$0.00	\$783,088	\$160
Net Book Value	\$7,112,824	\$7,112,824	\$0.00	\$7,107,511	-\$5,313
2018 Gross Open Bal	\$7,895,752	\$7,895,752	\$0.00	\$7,890,599	-\$5,153
2018 Additions	\$175,830	\$175,830	\$0.00	\$165,830	-\$10,000
2018 Disp/Ret	\$0	\$0	\$0.00	\$0	\$0
2018 Gross Close Bal	\$8,071,582	\$8,071,582	\$0.00	\$8,056,429	-\$15,153
Accumulated Depreciation					
2018 Open Bal	\$782,929	\$782,929	\$0.00	\$783,088	\$160
2018 Additions	\$280,878	\$280,878	\$0.00	\$281,068	\$190
2018 Disp/Ret	\$0	\$0	\$0.00	\$0	\$0
2018 Close Bal	\$1,063,807	\$1,063,807	\$0.00	\$1,064,156	\$350
Net Book Value	\$7,007,776	\$7,007,776	\$0.00	\$6,992,273	-\$15,503
System Access	\$36,800	\$36,800	\$0.00	\$36,800	\$0
System Renewal	\$117,780	\$117,780	\$0.00	\$117,780	\$0
System Service	\$10,000	\$10,000	\$0.00	\$0	-\$10,000
General Plant	\$11,250	\$11,250	\$0.00	\$11,250	\$0
Total Additions	\$175,830	\$175,830	\$0.00	\$165,830	-\$10,000
Capital Contribution included in System Access	\$0	\$0	\$0.00	-\$10,000	-\$10,000

Note: the terms "Additions" and "Expenditures" are used interchangeably and refer to the cost involved for adding new assets or bettering existing assets within a utility.

For the purposes of settlement of all the issues in this proceeding, the Parties accept the evidence of HHI that the level of planned capital expenditures and the rationale for planning and pacing choices are appropriate to maintain system reliability, service quality objectives and the reliable and safe operations of the distribution system.

Evidence References

- Exhibit 1. Section 1.2. Executive Summary/Business Plan Section 5.2
- Exhibit 1. Section 1.5 Application Summary
- Exhibit 2. Rate Base, Including Appendix B - DSP

IR Responses

- 2-Staff-17 to 2-Staff-43
- 2.0-VECC-7 to 2.0-VECC-13
- 2-SEC-8 to 2-SEC-16
- 2-Clarification Staff-1 to 2, 2-Clarification Staff 4 to 6
- Updated Fixed Asset Continuity Schedule

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

1.2 OM&A

Is the level of planned OM&A expenditures appropriate and is the rationale for planning choices appropriate and adequately explained, giving due consideration to:

- Customer feedback and preferences;
- Productivity;
- Compatibility with historical expenditures;
- Compatibility with applicable benchmarks;
- Reliability and service quality;
- Impact on distribution rates;
- Trade-offs with capital spending;
- Government-mandated obligations; and
- The objectives of Hydro Hawkesbury and its customers.

Full Settlement

Subject to a reduction of \$35,000 to the proposed 2018 OM&A budget, the parties agree that the proposed OM&A budget is appropriate. For illustrative purposes HHI has allocated the \$35,000 reduction across the categories of OM&A spending, but the Parties acknowledge that HHI is at liberty to manage the reduction as it sees fit, given the actual cost pressures faced by the company. HHI does not believe that the proposed reduction will materially impact the service quality or reliability of its distribution system.

As noted earlier, HHI is transitioning over the next year when its two remaining linemen retire to completely rely on external contractors to manage 100% of its capital and O&M activities. Currently, HHI does not have a formal service agreement with its primary contractor Sproule Inc. The Parties have agreed that HHI will enter into a service agreement with Sproule Inc. to formalize the terms of their working relationship within 1 year. HHI will file a copy of that agreement under the EB-2017-0048 docket number to confirm compliance with this term of the Settlement Proposal.

Table 4 - 2018 Test Year OM&A Expenditures

	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Operations	\$95,593	\$95,593	\$0	\$92,648	-\$2,945
Maintenance	\$204,514	\$204,514	\$0	\$198,496	-\$6,018
Billing and Collecting	\$476,632	\$476,632	\$0	\$462,970	-\$13,662
Community Relations	\$0	\$0	\$0	\$0	\$0
Administration & General +LEAP	\$433,375	\$433,375	\$0	\$421,000	-\$12,375
Total	\$1,210,114	\$1,210,114	\$0	\$1,175,114	-\$35,000

Evidence References

- Exhibit 1. Section 1.5.4 – Overview of Operation, Maintenance, and Administrative Costs
- Exhibit 1. Business Plan Section 5.3
- Exhibit 4 – Operating Expenses

IR Responses

- 1-Staff-4 to Staff-5,1-SEC-6, 2-Staff-38, 9-Staff-80
- 4-Staff 51 to Staff-62
- 4.0-VECC-24 to VECC-32
- 4-SEC-17 to 4-SEC-23

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

2 REVENUE REQUIREMENT

2.1 Are all elements of the Revenue Requirement reasonable, and have they been appropriately determined in accordance with OEB policies and practices?

Full Settlement

The parties agree that the methodology used by HHI to calculate the Revenue Requirement is appropriate.

A summary of the adjusted Revenue Requirement reflecting adjustments and settled issues in accordance with the above is presented in Table 5 - 2018 Revenue Requirement below.

Table 5 - 2018 Revenue Requirement

	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
OM&A Expenses	\$1,210,114	\$1,210,114	\$0	\$1,175,114	-\$35,000
Amortization/Depreciation	\$280,878	\$280,878	\$0	\$281,068	\$190
Property Taxes	\$0	\$17,768	\$17,768	\$17,768	\$0
Capital Taxes	\$0	\$0	\$0	\$0	\$0
Income Taxes (Grossed up)	\$9,717	\$9,774	\$57	\$10,538	\$764
Other Expenses	\$0	\$0	\$0	\$0	\$0
Return					
Deemed Interest Expense	\$179,324	\$175,133	-\$4,191	\$166,848	-\$8,284
Return on Deemed Equity	\$302,560	\$302,929	\$369	\$307,020	\$4,091
Service Revenue Requirement (before Revenues)	\$1,982,593	\$1,996,596	\$14,003	\$1,958,356	-\$38,239
Revenue Offsets	\$207,894	\$208,216	\$322	\$214,216	\$6,000
Base Revenue Requirement	\$1,774,699	\$1,788,380	\$13,681	\$1,744,140	-\$44,239
Base Revenue Deficiency	\$163,342	\$188,290	\$24,948	\$120,493	-\$67,797

An updated Revenue Requirement Work Form model has been filed through the OEB's e-filing service.

Evidence References

- Exhibit 1, Section 1.5 Application Summary
- Exhibit 6 Revenue Requirement. Section 0

IR Responses

- None

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

						\$4,099,432	0.0333216	\$136,599.62
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Evidence References

- Exhibit 1. Section 1.5 Application Summary
- Exhibit 5 Cost of Capital

IR Responses

- 5-Staff-70

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

2.1.2 Rate Base

Full Settlement

The Parties accept the evidence of HHI that the rate base calculations, after making the adjustment to the working capital and the in-service additions for 2018 as detailed in this Settlement Proposal, are reasonable and have been appropriately determined in accordance with OEB policies and practices. Table 8 - 2018 Rate Base below outlines HHI's Rate Base calculation.

Table 8 - 2018 Rate Base

Particulars	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Gross Fixed Assets (avg.)	\$7,983,667	\$7,983,667	\$0	\$7,973,514	-\$10,153
Accumulated Depreciation (avg.)	-\$923,368	-\$923,368	\$0	-\$923,622	-\$255
Net Fixed Assets (avg.)	\$7,060,300	\$7,060,300	\$0	\$7,049,892	-\$10,408
Allowance for Working Capital	\$1,554,729	\$1,565,231	\$10,503	\$1,478,441	-\$86,790
Total Rate Base	\$8,615,028	\$8,625,531	\$10,503	\$8,528,333	-\$97,198
Controllable Expenses	\$1,210,114	\$1,227,882	\$17,768	\$1,192,882	-\$35,000
Cost of Power	\$19,519,602	\$19,641,868	\$122,266	\$18,519,668	-\$1,122,200
Working Capital Base	\$20,729,716	\$20,869,750	\$140,034	\$19,712,551	-\$1,157,200
Working Capital Rate %	7.50%	7.50%	\$0.00	7.50%	0.00%
Working Capital Allowance	\$1,554,729	\$1,565,231	\$10,503	\$1,478,441	-\$86,790

Evidence References

- Exhibit 1. Section 1.5
- Exhibit 2 – Rate Base

IR Responses

- 2-Staff-17 to 2-Staff-43
- 2.0-VECC-7 to 2.0-VECC-13
- 2-SEC-9 to 2-SEC-16

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

2.1.3 Working Capital Allowance

Full Settlement

The Parties agreed that the Working Capital Allowance has been appropriately calculated, including adjustments in relation to OMA reductions and to the Cost of Power in relation to changes to the commodity prices as of July 1, 2017 and to the Global Adjustment as a result of the province's Fair Hydro Plan, as published in the Regulated Price Plan Prices and the Global Adjustment Modifier for the Period July 1, 2017 to April 30, 2018 issued on June 22, 2017. The derivation of the Cost of Power is presented at Attachment E of this settlement agreement.

Table 9 - 2018 Working Capital Allowance Calculation

Particulars	Application July 12 2017	IRR Nov 10 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Controllable Expenses	\$1,210,114	\$1,227,882	\$17,768	\$1,192,882	-\$35,000
Cost of Power	\$19,519,602	\$19,641,868	\$122,266	\$18,519,668	-\$1,122,200
Working Capital Base	\$20,729,716	\$20,869,750	\$140,034	\$19,712,551	-\$1,157,200
Working Capital Rate %	7.50%	7.50%	\$0.00	7.50%	0.00%
Working Capital Allowance	\$1,554,729	\$1,565,231	\$10,503	\$1,478,441	-\$86,790

Evidence References

- Exhibit 1. Section 1.5 Application Summary
- Exhibit 2. Section 2.1 Overview of Rate base

IR Responses

- 2-Staff-7

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

2.1.4 Depreciation

Full Settlement

The parties accept that the forecast of depreciation/amortization expenses, updated to reflect changes caused by the revision to the 2018 capital additions, are appropriate.

Table 10 - 2018 Depreciation

Particulars	Application July 12 2017	IRR Nov 10 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Depreciation	\$280,878	\$280,878	\$0.00	281,068	\$190

Evidence References

- Exhibit 4. Section 4.8 Depreciation, Amortization and Depletion

IR Responses

- 2-Staff-25, 3-Staff-50,7-Staff-50,9-Staff-78, 9-VECC-38

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

2.1.5 Taxes

Full Settlement

The Parties accept the evidence of HHI that its forecast taxes as adjusted are appropriate and have been correctly determined in accordance with OEB accounting policies and practices.

A summary of the updated Taxes is presented in Table 11 - 2018 Income Taxes below.

Table 11 - 2018 Income Taxes

	Application July 12 2017	IRR Nov 10 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Income Taxes (Grossed up)	\$9,717	\$9,774	\$57	\$10,538	\$764

An updated Tax Model has been submitted in Live Excel format as part of this Settlement Proposal.

Evidence References

- Exhibit 4. Section 4.9 – Taxes & Payments in Lieu of Taxes (PILS)

IR Responses

- None

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

2.1.6 Other Revenue

Full Settlement

The Parties have agreed that HHI will forecast net revenue of \$30,000 with respect to the disposal of 3 vehicles that will likely become unused by HHI in 2018, noting that all three vehicles have been fully depreciated; because the forecasted sale is a one time occurrence, the Parties have agreed to amortize the revenue from the sale by including 1/5th or \$6,000 related to the sale in the Test Year Revenue Requirement.

The parties also agreed to updating the Specific Service Charges to reflect a revised MicroFIT charge of \$10/customer.

With these adjustments the Parties accept the evidence of HHI that its proposed Other Revenues are appropriate and have been correctly determined in accordance with OEB accounting policies and practices.

Table 12 - 2018 Other Revenue

	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Specific Service Charges	\$64,948	\$64,948	\$0	\$65,270	\$322
Late Payment Charges	\$29,740	\$29,740	\$0	\$29,740	\$0
Other Distribution Revenues	\$30,777	\$30,777	\$0	\$30,777	\$0
Other Income and Deductions	\$82,429	\$82,429	\$0	\$88,429	\$6,000
Total	\$207,894	\$207,894	\$0	\$214,216	\$6,322

Evidence References

- Exhibit 1. Section 1.5.2 – Revenue Requirements
- Exhibit 3. Section 3.4 – Other Revenues

IR Responses

- 3 Staff-50

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

2.2 Has the revenue requirement been accurately determined based on these elements?

Full Settlement

The Parties accept the evidence of HHI that the proposed Base Revenue Requirement has been determined accurately.

Evidence References

- Exhibit 6, Revenue Requirement Work Form

IR Responses

- None

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3 LOAD FORECAST, COST ALLOCATION AND RATE DESIGN

3.1 Are the proposed load and customer forecast, loss factors, CDM adjustments and resulting billing determinants appropriate, and, to the extent applicable, are they an appropriate reflection of the energy and demand requirements of Hydro Hawkesbury's customers?

Full Settlement

The Parties accept the evidence of HHI and its methodology used for the load forecast, customer forecast, loss factors and CDM adjustments after incorporating the following adjustments:

- Removal of the CDM adjustment related to 2015 CDM, Update 2017 and 2018 to use savings from CDM plan 2015-2020.
- Updating of the allocation of manual adjustment for Load Forecast to use verified results for 2016 and the CDM Plan for 2017-2018.
- Removal of the "Employment" variable from Load Forecast due to counter intuitive results.

The resulting billing determinants are presented in Table 13 - 2018 Test Year Billing Determinants (for Cost Allocation and Rate Design) below.

Table 13 - 2018 Test Year Billing Determinants (for Cost Allocation and Rate Design)

Particulars	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Energy (kWh)					
Residential	48,228,553	47,552,180	-676,372	50,454,856	2,902,676
General Service < 50 kW	18,143,532	17,889,082	-254,451	17,883,115	-5,966
General Service > 50 to 4999 kW	81,021,489	79,885,218	-1,136,271	85,142,906	5,257,689
Unmetered Scattered Load	429,307	422,721	-6,586	432,358	9,638
Sentinel Lighting	84,029	82,740	-1,289	84,626	1,886
Street Lighting	641,942	632,094	-9,848	646,505	14,411
Total	148,548,851	146,464,034	-2,084,817	154,644,367	8,180,334
Demand (kW)					
Residential	0	0	0	0	0
General Service < 50 kW	0	0	0	0	0
General Service > 50 to 4999 kW	211,046	212,831	1,784	221,782	8,951
Unmetered Scattered Load	0	4	4	0	-4
Sentinel Lighting	238	240	2	240	0
Street Lighting	1,844	1,857	13	1,857	0
Total	213,128	214,932	1,803	223,879	8,947

An updated copy of HHI's Load Forecast Model has been submitted in Live Excel format as part of this Settlement Proposal.

Evidence References

- Exhibit 1. Section 1.5 Application Summary
- Exhibit 3. Section 3.1 Load and Revenue Forecast and Section 3.2 Impact and Persistence from Historical CDM Programs and Section 3.3 Accuracy of Load Forecast and Variance Analysis
- HHI Load Forecast Model

IR Responses

- 3-Staff-44 to 3-Staff-50
- 3.0-VECC-15 to 3.0-VECC-23

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.1.1 Customer/Connection Forecast

Full Settlement

For the purpose of settlement, the Parties have agreed to the forecast of customers/connections as set out in Table 14 - Summary of 2018 Load Forecast Customer Counts/Connections below.

Table 14 - Summary of 2018 Load Forecast Customer Counts/Connections

Particulars	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Residential	4,836	4,836	0	4,836	0
General Service < 50 kW	618	618	0	618	0
General Service > 50 to 4999 kW	89	89	0	89	0
Unmetered Scattered Load	10	10	0	10	0
Sentinel Lighting	57	57	0	57	0
Street Lighting	1,211	1,211	0	1,211	0
Total	6820	6820	0	6820	0

Evidence References

- Exhibit 1. Section 1.5 Application Summary
- Exhibit 3. Section 3.1 Load and Revenue Forecast and Section 3.2 Impact and Persistence from Historical CDM Programs and Section 3.3 Accuracy of Load Forecast and Variance Analysis
- HHI Load Forecast Model

IR Responses

- 3-VECC-20

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

None

3.1.2 Load Forecast

Full Settlement

The Parties agreed to the following updates in the Load Forecast Model:

- the removal of the CDM weighting factor related to 2015 CDM.
- for the 2015-2020 CDM Program Table, the use of the 2016 verified results persisting in 2018 along with annual savings from the CDM plan for 2017 and 2018 assuming a 100% persistence for 2018.
- a revised allocation of the manual CDM adjustment based on the 2016 verified results and the CDM plan savings for 2017 and 2018.

Table 15 - Summary of 2018 Load Forecast Billed kWh (CDM Adjusted) below provides the weather normalized billed kWh and billed demand forecast by rate class.

Table 15 - Summary of 2018 Load Forecast Billed kWh (CDM Adjusted)

Particulars	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Energy (kWh)					
Residential	48,228,553	47,552,180	-676,372	50,454,856	2,902,676
General Service < 50 kW	18,143,532	17,889,082	-254,451	17,883,115	-5,966
General Service > 50 to 4999 kW	81,021,489	79,885,218	-1,136,271	85,142,906	5,257,689
Unmetered Scattered Load	429,307	422,721	-6,586	432,358	9,638
Sentinel Lighting	84,029	82,740	-1,289	84,626	1,886
Street Lighting	641,942	632,094	-9,848	646,505	14,411
Total	148,548,851	146,464,034	-2,084,817	154,644,367	8,180,334
Demand (kW)					
Residential	0	0	0	0	0
General Service < 50 kW	0	0	0	0	0
General Service > 50 to 4999 kW	211,046	212,831	1,784	221,782	8,951
Unmetered Scattered Load	0	4	4	0	-4
Sentinel Lighting	238	240	2	240	0
Street Lighting	1,844	1,857	13	1,857	0
Total	213,128	214,932	1,803	223,879	8,947

Evidence References

- Exhibit 1. Section 1.5 Application Summary
- Exhibit 3. Section 3.1 Load and Revenue Forecast and Section 3.2 Impact and Persistence from Historical CDM Programs and Section 3.3 Accuracy of Load Forecast and Variance Analysis
- HHI Load Forecast Model

IR Responses

- 3-Staff-44 to 3-Staff-50
- 3.0-VECC-15 to 3.0-VECC-23

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.1.3 Loss Factors

Full Settlement

The Parties agree to the Loss Factors as corrected through the interrogatory process and as summarized below:

Table 16 - 2018 Loss Factors

Particulars	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Customer Class					
Loss Factor in Distributor's system = C / F	1.0298	1.0298	0.0000	1.0298	0.0000
Losses Upstream of Distributor's System					
Supply Facilities Loss Factor	1.0053	1.0039	-0.0014	1.0205	0.0166
Total Losses					
Total Loss Factor = G x H	1.0352	1.0338	-0.0014	1.0509	0.0171

Evidence References

- Exhibit 8. Section 8.1.11 Loss Adjustment Factors

IR Responses

- 8.0-VECC-37

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.1.4 LRAMVA Baseline

Full Settlement

The parties have agreed to LRAMVA thresholds as set out in Table 17 - 2018 LRAMVA Baseline kWhs and kW's below.

Table 17 - 2018 LRAMVA Baseline kWhs and kW's

Customer Class		2015	2016	total			
Particulars	Year	verified (kWh)	verified (kWh)	2017-2018 CDM Plan	Total Savings 2015-2018	Share	LRAMVA baseline
Residential							
	kWh	404,056	731,503	367,290	1,502,849	26.36%	1,497,375
General Service < 50 kW							
	kWh	883,619	629,072	1,385,164	2,897,855	50.82%	2,887,298
General Service > 50 to 2999 kW							
	kWh	11,096		1,289,899	1,300,995	22.82%	1,296,256
USL							
	kWh						
Sentinel							
	kWh						
Street Lighting							
	kWh						
	Total	1,298,771	1,360,575	3,042,353	5,701,699	100.00%	5,680,929

Evidence References

- Exhibit 3. Section 3.2.2 Allocation of CDM Results
- HHI 2017 Load Forecast

IR Responses

- 9-Staff-94 to 9-Staff-98
- 4-VECC-31-32

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.2 Is the proposed cost allocation methodology, and are the allocations and revenue-to-cost ratios, appropriate?

Full Settlement

The Parties agreed to a correction in the formula for the demand data calculations.

Subject to the above adjustment, the Parties accept the evidence of HHI that all elements of the cost allocation methodology allocation and Revenue-to-Cost ratios have been correctly determined in accordance with OEB policies and practices,

Table 18 - Summary of 2018 Revenue to Cost Ratios

Particulars	Application July 12 2017			IRR Nov 10 2017			Settlement Proposal Jan 8 2018		
	Calculated R/C Ratio	Proposed R/C Ratio	Variance	Calculated R/C Ratio	Proposed R/C Ratio	Variance	Calculated R/C Ratio	Proposed R/C Ratio	Variance
Customer Class Name									
Residential	1.01	1.01	0.00	1.02	1.02	0.00	0.98	0.98	0.00
General Service < 50 kW	1.07	1.07	0.00	1.08	1.08	0.00	0.99	0.99	0.00
General Service > 50 to 4999 kW	0.95	0.95	0.00	0.93	0.93	0.00	1.06	1.06	0.00
Unmetered Scattered Load	0.97	0.97	0.00	0.96	0.96	0.00	0.91	0.91	0.00
Sentinel Lighting	1.00	1.00	0.00	0.98	0.98	0.00	0.98	0.98	0.00
Street Lighting	0.73	0.80	-0.07	0.81	0.81	0.00	0.82	0.81	0.00

Evidence References

- Exhibit 1. Section 1.5 Application Summary
- Exhibit 7 Cost Allocation

IR Responses

- 7-Staff-64 to 7-Staff-73
- 7.0-VECC-34-35
- 7-SEC-25

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.3 Are Hydro Hawkesbury's proposals for rate design appropriate?

Full Settlement

The Parties accept the evidence of HHI that all elements of the rate design have been correctly determined in accordance with OEB policies and practices.

Table 19 - Distribution Rates

Particulars		Application July 12 2017	Application July 12 2017	IRR Nov 3 2017	IRR Nov 3 2017	Settlement Proposal Jan 8 2018	Settlement Proposal Jan 8 2018
Customer Class Name	per	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate
Residential	kWh	\$15.39	\$0.0028	\$15.63	\$0.0029	\$15.15	\$0.0027
General Service < 50 kW	kWh	\$15.47	\$0.0073	\$15.47	\$0.0076	\$15.47	\$0.0071
General Service > 50 to 4999 kW	kW	\$100.99	\$2.2602	\$100.99	\$2.2869	\$100.99	\$2.1023
Unmetered Scattered Load	kWh	\$7.29	\$0.0043	\$7.41	\$0.0044	\$7.12	\$0.0042
Sentinel Lighting	kW	\$1.83	\$3.6222	\$1.77	\$3.9378	\$1.66	\$3.8961
Street Lighting	kW	\$0.67	\$7.2372	\$0.61	\$6.6667	\$0.59	\$6.4020

Table 20 – Fixed to Variable Split

Particulars		Application July 12 2017	Application July 12 2017	IRR Nov 3 2017	IRR Nov 3 2017	Settlement Proposal Jan 8 2018	Settlement Proposal Jan 8 2018
Customer Class Name	per	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate
Residential	kWh	86.89%	13.11%	86.99%	13.01%	86.41%	13.59%
General Service < 50 kW	kWh	46.25%	53.75%	45.89%	54.11%	47.53%	52.47%
General Service > 50 to 4999 kW	kW	22.85%	77.15%	22.91%	77.09%	23.39%	76.61%
Unmetered Scattered Load	kWh	31.28%	68.72%	31.60%	68.40%	31.12%	68.88%
Sentinel Lighting	kW	59.01%	40.99%	56.56%	43.44%	54.72%	45.28%
Street Lighting	kW	42.09%	57.91%	42.47%	57.53%	41.92%	58.08%

Evidence References

- Exhibit 8 Rate Design
- HHI 2017 Rate Design Model
- OEB RRWF Model

IR Responses

- 8-Staff-74 to 8-Staff-76
- 8-VEC-36-37

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.3.1 Residential Rate Design

Full Settlement

The Parties accept that HHI's proposal for the phase in of fully fixed charge for the residential rate class remains appropriate and is properly reflected in the application.

Evidence References

- Exhibit 8. Section 8.1 Rate Design
- OEB RRWF Model

IR Responses

- None

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.4 Are the proposed Retail Transmission Service Rates and Low Voltage service rates appropriate?

Full Settlement

The Parties accept the evidence of HHI that all elements of the Retail Transmission Service Rates and Low Voltage Service Rates have been correctly determined in accordance with OEB policies and practices.

Evidence References

- Exhibit 8. Section 8.1.1 Retail Transmission Service Rates (RTSR)

IR Responses

- 8.0-VECC-36

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.4.1 Retail Transmission Service Rates

Full Settlement

The Parties have agreed to the RTSRs presented in Table 21 - RTSR Network and Connection Rates below. An updated copy of the OEB's RTSR model has been submitted in live Excel format as part of this Settlement Proposal.

Table 21 - RTSR Network and Connection Rates

Transmission - Network	Application July 12 2017	Application July 12 2017	IRR Nov 13 2017	IRR Nov 13 2017	Settlement Proposal Jan 8 2018	Settlement Proposal Jan 8 2018
Class Name	Rate	Impact on CoP	Rate	Impact on CoP	Rate	Impact on CoP
Residential	0.0078	\$387,863	0.0076	\$373,229	0.0074	\$395,025
General Service < 50 kW	0.0071	\$133,583	0.0070	\$128,543	0.0068	\$128,180
General Service > 50 to 4999 kW	2.8974	\$611,487	2.8317	\$589,239	2.7786	\$616,243
Unmetered Scattered Load	0.0071	\$3,161	0.0070	\$3,037	0.0068	\$3,099
Sentinel Lighting	2.1860	\$521	2.1364	\$501	2.0963	\$503
Street Lighting	2.1853	\$4,029	2.1358	\$3,878	2.0957	\$3,892
Total		\$1,140,644		\$1,098,427		\$1,143,050
Transmission - Connection						
Class Name	Rate	Impact on CoP	Rate	Impact on CoP	Rate	Impact on CoP
Residential	0.0041	\$204,172	0.0041	\$199,202	0.0041	\$215,439
General Service < 50 kW	0.0036	\$67,773	0.0036	\$66,123	0.0036	\$67,376
General Service > 50 to 4999 kW	1.4831	\$313,003	1.4696	\$305,810	1.4736	\$326,809
Unmetered Scattered Load	0.0036	\$1,604	0.0036	\$1,563	0.0036	\$1,629
Sentinel Lighting	2.3410	\$558	2.3198	\$544	2.3260	\$558
Street Lighting	1.1465	\$2,114	1.1360	\$2,063	1.1391	\$2,115
Total		\$589,224		\$575,305		\$611,811

Evidence References

- Exhibit 8. Section 8.1.4 Retail Transmission Service Rates (RTSR)

IR Responses

- 8.0-VECC-36

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

3.4.2 Low Voltage Service Rates

Full Settlement

The Parties agree that the Low Voltage Service rates have been appropriately determined.

Table 22 – LV Charges

Low Voltage Charges Rate Rider Calculations					
Customer Class Name	% Allocation	Charges	Not Uplifted Volumes	Rate	per
Residential	34.14%	72,092	50,454,856	\$0.0014	kWh
General Service < 50 kW	10.74%	22,683	17,883,115	\$0.0013	kWh
General Service > 50 to 4999 kW	54.41%	114,878	221,782	\$0.5184	kW
Unmetered Scattered Load	0.26%	544	432,358	\$0.0013	kWh
Sentinel Lighting	0.09%	196	240	\$0.8183	kW
Street Lighting	0.35%	743	1,857	\$0.4007	kW
TOTAL	100.00%	211,136	68,994,212		

Evidence References

- Exhibit 8. Section 8.1.10 Low Voltage Service Rates

IR Responses

- None

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

4 ACCOUNTING

4.1 Have all impacts of any changes in accounting standards, policies, estimates, and adjustments been properly identified and recorded, and is the rate-making treatment of each of these impacts appropriate?

Full Settlement

The Parties accept the evidence of HHI that all impacts of changes to accounting standards, policies, estimates, and adjustments have been properly identified and recorded in accordance with the OEB's policies and properly reflected in rates.

An updated EDDVAR Continuity Schedule is provided in working Excel format reflecting this Settlement Proposal and includes the calculation of the various riders discussed above.

Evidence References

- Exhibit 1. Section 1.3.9 Changes in Methodologies

IR Responses

- None

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

4.2 Are Hydro Hawkesbury’s proposals for deferral and variance accounts, including the balances in the existing accounts and their disposition, requests for new accounts and the continuation of existing accounts, appropriate?

Full Settlement

The Parties accept the evidence of HHI that all elements of the applied for deferral and variance accounts are appropriate as updated through the interrogatory process, including the balances in the existing accounts and their disposition on a harmonized basis commencing January 1, 2018 and the continuation of existing accounts. Specific to the clearance of the 2015 and 2016 LRAMVA, the parties accept the updated balances as appropriate for clearance.

Table 23 - DVA Balances below summarizes the amounts for disposition and associated rate riders by rate class.

Table 23 - DVA Balances

		Amounts from Sheet 2	Allocator
LV Variance Account	1550	186,384	kWh
Smart Metering Entity Charge Variance Account	1551	(977)	# of Customers
RSVA - Wholesale Market Service Charge	1580	(345,244)	kWh
RSVA - Retail Transmission Network Charge	1584	132,817	kWh
RSVA - Retail Transmission Connection Charge	1586	151,496	kWh
RSVA - Power (excluding Global Adjustment)	1588	(924,762)	kWh
RSVA - Global Adjustment	1589	304,101	Non-RPP kWh
Disposition and Recovery/Refund of Regulatory Balances (2012)	1595	0	%
Disposition and Recovery/Refund of Regulatory Balances (2013)	1595	0	%
Disposition and Recovery/Refund of Regulatory Balances (2014)	1595	(0)	%
Disposition and Recovery/Refund of Regulatory Balances (2015)	1595	(0)	%
Total of Group 1 Accounts (excluding 1589)		(743,064)	
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	23,786	kWh
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	0	kWh
Other Regulatory Assets - Sub-Account - Other	1508	0	kWh
Retail Cost Variance Account - Retail	1518	11,135	kWh
Misc. Deferred Debits	1525	0	kWh
Retail Cost Variance Account - STR	1548	11,163	kWh
Total of Group 2 Accounts		46,085	
PILs and Tax Variance for 2006 and Subsequent Years (excludes sub-account and contra account)	1592	0	kWh

PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592	0	kWh
Total of Account 1592		0	

LRAM Variance Account (Enter dollar amount for each class)	1568	7860	
(Account 1568 - total amount allocated to classes)		7861	
Variance		1	

Renewable Generation Connection OM&A Deferral Account	1532	0	kWh
---	------	----------	-----

Total of Group 1 Accounts (1550, 1551, 1584, 1586 and 1595)		526,943	
Total of Account 1580 and 1588 (not allocated to WMPs)		(1,270,007)	
Balance of Account 1589 Allocated to Non-WMPs		304,101	

Group 2 Accounts (including 1592, 1532)		46,085	
--	--	---------------	--

IFRS-CGAAP Transition PP&E Amounts Balance + Return Component	1575	0	kWh
Accounting Changes Under CGAAP Balance + Return Component	1576	0	kWh
Total Balance Allocated to each class for Accounts 1575 and 1576		0	

Table 24 - LRAMVA Rate Riders

Description	Residential	General Service <50 kW	General Service 50 - 4999 kW	Street Lighting	Sentinel Lighting	Unmetered Scattered Load	Total
	kWh	kWh	kW	kW	kWh	kW	
2015 Actuals	\$8,411.40	\$20,085.78	\$26.68	\$0.00	\$0.00	\$0.00	\$28,523.87
2015 Forecast	(\$13,962.18)	(\$3,281.89)	(\$11,454.47)	(\$529.58)	(\$25.97)	(\$22.31)	(\$29,276.39)
Amount Cleared							
2016 Actuals	\$11,421.43	\$23,583.05	\$27.24	\$0.00	\$0.00	\$0.00	\$35,031.72
2016 Forecast	(\$10,827.81)	(\$3,336.59)	(\$11,695.00)	(\$540.70)	(\$26.52)	(\$22.89)	(\$26,449.50)
Amount Cleared							
Carrying Charges	(\$86.48)	\$372.93	(\$243.03)	(\$11.26)	(\$0.55)	(\$0.47)	\$31.14
Total LRAMVA Balance	-\$5,044	\$37,423	-\$23,339	-\$1,082	-\$53	-\$46	\$7,861
Rate Rider	-0.0001	0.0021	-0.1052	-0.5824	-0.2210	-0.0001	

Evidence References

- Exhibit 10. Section 1.5.8 – Overview of Deferral and Variance Account Disposition
- Exhibit 4. Section 4.12.2 – Lost Revenue Adjustment Mechanism
- Exhibit 9 – Deferral and Variance Accounts
- HHI_2018 DVA Continuity Schedule

IR Responses

- 9-Staff-77 to Staff-98
- 9.0-VECC-38
- 9-SEC-26

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

4.2.1 Effective Date

Full Settlement

The Parties agree that HHI's new rates should be made effective January 1, 2018. In the event there is a delay to the implementation of new rates on January 1, 2018 the parties agree that existing rates should be made interim as of January 1, 2018. The Parties further agree that HHI's rates for the period of January 1, 2017 to December 1, 2017, having previously been declared interim as a result of a high reported ROE in 2015, should be declared final without any adjustments. The high ROE in 2015 was caused primarily by the inclusion in 2015 rates of amounts relating to the upgrades to the 110kV substation that did not come into service until 2017, causing an overcollection in rates that HHI has proposed to refund to customers through a rate rider that is described in detail under issue 5.2.

Evidence References

- Exhibit 1. Section 1.3.4 Legal Application

IR Responses

- None

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

5 OTHER

5.1 Is the proposed MicroFIT rate appropriate?

Full Settlement

The Parties agree that HHI's proposed MicroFIT rate adjustment from \$5.40/month to \$10.00/month is appropriate. HHI's revenue offsets have been increased by \$322 to reflect the increase in revenue related to the increase in the rate.

Evidence References

- Exhibit 3. Section 3.4.3 – Proposed Specific Service Charges

IR Responses

- 8-Staff-76
- 3.0-VECC-15,19,23

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

5.2 Is the applicant’s proposal to refund amounts due to a delay in upgrading Hydro Hawkesbury’s 110kV transformer station, including the quantum and method of disposition, appropriate?

Full Settlement

The Parties accept HHI’s proposal to refund amounts due to a delay in upgrading Hydro Hawkesbury’s 110kV transformer station, including the quantum and method of disposition. The rate riders are shown below.

Table 25 – Transformer Refund Rate Rider

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers	Allocated Balance (excluding 1589)	Rate Rider for Deferral/Variance Accounts
RESIDENTIAL	# of Customers	4,836	-\$104,455.81	-\$21.60
GENERAL SERVICE < 50 KW	kWh	17,883,115	-\$32,667.44	-\$0.0018
GENERAL SERVICE > 50 TO 4999 KW	kW	221,782	-\$166,523.25	-\$0.7508
UNMETERED SCATTERED LOAD	kWh	432,358	-\$789.80	-\$0.0018
SENTINEL LIGHTING	kW	240	-\$284.44	-\$1.1852
STREET LIGHTING	kW	1,857	-\$1,077.80	-\$0.5804
Total			-\$305,798.55	

Evidence References

- Exhibit 3. Section 3.4.3 – Proposed Specific Service Charges
- Exhibit 8. Section 8.1.9 – Specific Service Charges

IR Responses

- 9-Staff-93

Supporting Parties

- HHI, VECC, SEC

Parties Taking No Position

- None

6 ATTACHMENTS

A. Revenue Requirement Workform



Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2017 Filers



Version 7.00

Utility Name	Hydro Hawkesbury Inc.
Service Territory	
Assigned EB Number	EB-2017-0048
Name and Title	Michel Poulin, General Manager
Phone Number	613-632-6689
Email Address	mpoulin@hydrohawkesbury.ca

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 results.



Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2017 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 2017 Filers

Data Input ⁽¹⁾

	Initial Application ⁽²⁾	Adjustments	Interrogatory Responses ⁽⁶⁾	Adjustments	Per Board Decision
1 Rate Base					
Gross Fixed Assets (average)	\$7,983,667		\$ 7,983,667	(\$10,153)	\$7,973,514
Accumulated Depreciation (average)	(\$923,368) ⁽⁵⁾		(\$923,368)	(\$255)	(\$923,622)
Allowance for Working Capital:					
Controllable Expenses	\$1,210,114	\$17,768	\$ 1,227,882	(\$35,000)	\$1,192,882
Cost of Power	\$19,519,602	\$122,266	\$ 19,641,868	(\$1,122,200)	\$18,519,668
Working Capital Rate (%)	7.50% ⁽⁹⁾		7.50% ⁽⁹⁾		7.50% ⁽⁹⁾
2 Utility Income					
Operating Revenues:					
Distribution Revenue at Current Rates	\$1,611,356	(\$11,267)	\$1,600,090	\$23,558	\$1,623,647
Distribution Revenue at Proposed Rates	\$1,774,699	\$13,681	\$1,788,380	(\$28,479)	\$1,744,140
Other Revenue:					
Specific Service Charges	\$64,948	\$322	\$65,270	\$0	\$65,270
Late Payment Charges	\$29,740	\$0	\$29,740	\$0	\$29,740
Other Distribution Revenue	\$30,777	\$0	\$30,777	\$0	\$30,777
Other Income and Deductions	\$82,429	\$0	\$82,429	\$6,000	\$88,429
Total Revenue Offsets	\$207,894 ⁽⁷⁾	\$322	\$208,216	\$6,000	\$214,216
Operating Expenses:					
OM+A Expenses	\$1,210,114		\$ 1,210,114	(\$35,000)	\$1,175,114
Depreciation/Amortization	\$280,878		\$ 280,878	\$190	\$281,068
Property taxes	\$ -	\$17,768	\$ 17,768		\$17,768
Other expenses					
3 Taxes/PILs					
Taxable Income:					
Adjustments required to arrive at taxable income	(\$247,497) ⁽³⁾		(\$247,497)		(\$247,307)
Utility Income Taxes and Rates:					
Income taxes (not grossed up)	\$8,259		\$8,308		\$8,957
Income taxes (grossed up)	\$9,717		\$9,774		\$10,538
Federal tax (%)	10.50%		10.50%		10.50%
Provincial tax (%)	4.50%		4.50%		4.50%
Income Tax Credits					
4 Capitalization/Cost of Capital					
Capital Structure:					
Long-term debt Capitalization Ratio (%)	56.0%		56.0%		56.0%
Short-term debt Capitalization Ratio (%)	4.0% ⁽⁸⁾		4.0% ⁽⁸⁾		4.0% ⁽⁸⁾
Common Equity Capitalization Ratio (%)	40.0%		40.0%		40.0%
Preferred Shares Capitalization Ratio (%)					
	100.0%		100.0%		100.0%
Cost of Capital					
Long-term debt Cost Rate (%)	3.59%		3.50%		3.33%
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.



Revenue Requirement Workform (RRWF) for 2017 Filers

Rate Base and Working Capital

Line No.	Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) ⁽²⁾	\$7,983,667	\$ -	\$7,983,667	(\$10,153)	\$7,973,514
2	Accumulated Depreciation (average) ⁽²⁾	(\$923,368)	\$ -	(\$923,368)	(\$255)	(\$923,622)
3	Net Fixed Assets (average) ⁽²⁾	\$7,060,300	\$ -	\$7,060,300	(\$10,408)	\$7,049,892
4	Allowance for Working Capital ⁽¹⁾	\$1,554,729	\$10,503	\$1,565,231	(\$86,790)	\$1,478,441
5	Total Rate Base	\$8,615,028	\$10,503	\$8,625,531	(\$97,198)	\$8,528,333

(1) Allowance for Working Capital - Derivation

6	Controllable Expenses	\$1,210,114	\$17,768	\$1,227,882	(\$35,000)	\$1,192,882
7	Cost of Power	\$19,519,602	\$122,266	\$19,641,868	(\$1,122,200)	\$18,519,668
8	Working Capital Base	\$20,729,716	\$140,034	\$20,869,750	(\$1,157,200)	\$19,712,551
9	Working Capital Rate % ⁽¹⁾	7.50%	0.00%	7.50%	0.00%	7.50%
10	Working Capital Allowance	\$1,554,729	\$10,503	\$1,565,231	(\$86,790)	\$1,478,441

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.



Revenue Requirement Workform (RRWF) for 2017 Filers

Utility Income

Line No.	Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Per Board Decision
Operating Revenues:						
1	Distribution Revenue (at Proposed Rates)	\$1,774,699	\$13,681	\$1,788,380	(\$44,239)	\$1,744,140
2	Other Revenue ⁽¹⁾	\$207,894	\$322	\$208,216	\$6,000	\$214,216
3	Total Operating Revenues	\$1,982,593	\$14,003	\$1,996,596	(\$38,239)	\$1,958,356
Operating Expenses:						
4	OM+A Expenses	\$1,210,114	\$ -	\$1,210,114	(\$35,000)	\$1,175,114
5	Depreciation/Amortization	\$280,878	\$ -	\$280,878	\$190	\$281,068
6	Property taxes	\$ -	\$17,768	\$17,768	\$ -	\$17,768
7	Capital taxes	\$ -	\$ -	\$ -	\$ -	\$ -
8	Other expense	\$ -	\$ -	\$ -	\$ -	\$ -
9	Subtotal (lines 4 to 8)	\$1,490,993	\$17,768	\$1,508,761	(\$34,810)	\$1,473,951
10	Deemed Interest Expense	\$179,324	(\$4,191)	\$175,133	(\$8,284)	\$166,848
11	Total Expenses (lines 9 to 10)	\$1,670,316	\$13,577	\$1,683,893	(\$43,094)	\$1,640,799
12	Utility income before income taxes	\$312,277	\$426	\$312,702	\$4,855	\$317,557
13	Income taxes (grossed-up)	\$9,717	\$57	\$9,774	\$764	\$10,538
14	Utility net income	\$302,560	\$369	\$302,929	\$4,091	\$307,020

Notes

Other Revenues / Revenue Offsets

(1)	Specific Service Charges	\$64,948	\$322	\$65,270	\$ -	\$65,270
	Late Payment Charges	\$29,740	\$ -	\$29,740	\$ -	\$29,740
	Other Distribution Revenue	\$30,777	\$ -	\$30,777	\$ -	\$30,777
	Other Income and Deductions	\$82,429	\$ -	\$82,429	\$6,000	\$88,429
	Total Revenue Offsets	\$207,894	\$322	\$208,216	\$6,000	\$214,216

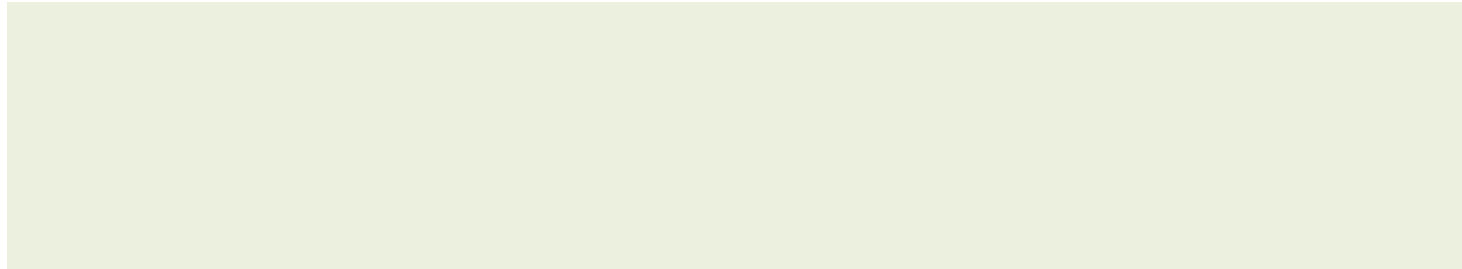
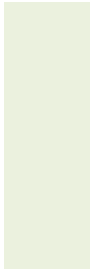


Revenue Requirement Workform (RRWF) for 2017 Filers

Taxes/PILs

Line No.	Particulars	Application	Interrogatory Responses	Per Board Decision
<u>Determination of Taxable Income</u>				
1	Utility net income before taxes	\$302,560	\$302,929	\$307,020
2	Adjustments required to arrive at taxable utility income	(\$247,497)	(\$247,497)	(\$247,307)
3	Taxable income	\$55,063	\$55,431	\$59,713
<u>Calculation of Utility income Taxes</u>				
4	Income taxes	\$8,259	\$8,308	\$8,957
6	Total taxes	\$8,259	\$8,308	\$8,957
7	Gross-up of Income Taxes	\$1,458	\$1,466	\$1,581
8	Grossed-up Income Taxes	\$9,717	\$9,774	\$10,538
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$9,717	\$9,774	\$10,538
10	Other tax Credits	\$ -	\$ -	\$ -
<u>Tax Rates</u>				
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
		(%)	(\$)	(%)	(\$)
Initial Application					
	Debt				
1	Long-term Debt	56.00%	\$4,824,416	3.59%	\$173,259
2	Short-term Debt	4.00%	\$344,601	1.76%	\$6,065
3	Total Debt	60.00%	\$5,169,017	3.47%	\$179,324
	Equity				
4	Common Equity	40.00%	\$3,446,011	8.78%	\$302,560
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$3,446,011	8.78%	\$302,560
7	Total	100.00%	\$8,615,028	5.59%	\$481,883
Interrogatory Responses					
	Debt				
1	Long-term Debt	56.00%	\$4,830,297	3.50%	\$169,060
2	Short-term Debt	4.00%	\$345,021	1.76%	\$6,072
3	Total Debt	60.00%	\$5,175,319	3.38%	\$175,133
	Equity				
4	Common Equity	40.00%	\$3,450,212	8.78%	\$302,929
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$3,450,212	8.78%	\$302,929
7	Total	100.00%	\$8,625,531	5.54%	\$478,061
Per Board Decision					
	Debt				
8	Long-term Debt	56.00%	\$4,775,867	3.33%	\$159,036
9	Short-term Debt	4.00%	\$341,133	2.29%	\$7,812
10	Total Debt	60.00%	\$5,117,000	3.26%	\$166,848
	Equity				
11	Common Equity	40.00%	\$3,411,333	9.00%	\$307,020
12	Preferred Shares	0.00%	\$ -	0.00%	\$ -
13	Total Equity	40.00%	\$3,411,333	9.00%	\$307,020
14	Total	100.00%	\$8,528,333	5.56%	\$473,868

Notes



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		\$180,736		\$210,019		\$129,359
2	Distribution Revenue	\$1,611,356	\$1,593,963	\$1,600,090	\$1,578,361	\$1,623,647	\$1,614,781
3	Other Operating Revenue Offsets - net	\$207,894	\$207,894	\$208,216	\$208,216	\$214,216	\$214,216
4	Total Revenue	<u>\$1,819,250</u>	<u>\$1,982,593</u>	<u>\$1,808,306</u>	<u>\$1,996,596</u>	<u>\$1,837,863</u>	<u>\$1,958,356</u>
5	Operating Expenses	\$1,490,993	\$1,490,993	\$1,508,761	\$1,508,761	\$1,473,951	\$1,473,951
6	Deemed Interest Expense	\$179,324	\$179,324	\$175,133	\$175,133	\$166,848	\$166,848
8	Total Cost and Expenses	<u>\$1,670,316</u>	<u>\$1,670,316</u>	<u>\$1,683,893</u>	<u>\$1,683,893</u>	<u>\$1,640,799</u>	<u>\$1,640,799</u>
9	Utility Income Before Income Taxes	\$148,934	\$312,277	\$124,412	\$312,702	\$197,064	\$317,557
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$247,497)	(\$247,497)	(\$247,497)	(\$247,497)	(\$247,307)	(\$247,307)
11	Taxable Income	<u>(\$98,563)</u>	<u>\$64,779</u>	<u>(\$123,085)</u>	<u>\$65,205</u>	<u>(\$50,243)</u>	<u>\$70,250</u>
12	Income Tax Rate	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
13	Income Tax on Taxable Income	\$ -	\$9,717	\$ -	\$9,781	\$ -	\$10,537
14	Income Tax Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Utility Net Income	<u>\$148,934</u>	<u>\$302,560</u>	<u>\$124,412</u>	<u>\$302,929</u>	<u>\$197,064</u>	<u>\$307,020</u>
16	Utility Rate Base	\$8,615,028	\$8,615,028	\$8,625,531	\$8,625,531	\$8,528,333	\$8,528,333
17	Deemed Equity Portion of Rate Base	\$3,446,011	\$3,446,011	\$3,450,212	\$3,450,212	\$3,411,333	\$3,411,333
18	Income/(Equity Portion of Rate Base)	4.32%	8.78%	3.61%	8.78%	5.78%	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	-4.46%	0.00%	-5.17%	0.00%	-3.22%	0.00%
21	Indicated Rate of Return	3.81%	5.59%	3.47%	5.54%	4.27%	5.56%
22	Requested Rate of Return on Rate Base	5.59%	5.59%	5.54%	5.54%	5.56%	5.56%
23	Deficiency/Sufficiency in Rate of Return	-1.78%	0.00%	-2.07%	0.00%	-1.29%	0.00%
24	Target Return on Equity	\$302,560	\$302,560	\$302,929	\$302,929	\$307,020	\$307,020
25	Revenue Deficiency/(Sufficiency)	\$153,626	\$ -	\$178,516	\$ -	\$109,956	(\$0)
26	Gross Revenue Deficiency/(Sufficiency)	<u>\$180,736 ⁽¹⁾</u>		<u>\$210,019 ⁽¹⁾</u>		<u>\$129,359 ⁽¹⁾</u>	

Notes:

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



Revenue Requirement Workform (RRWF) for 2017 Filers

Revenue Requirement

Line No.	Particulars	Application	Interrogatory Responses	Per Board Decision
1	OM&A Expenses	\$1,210,114	\$1,210,114	\$1,175,114
2	Amortization/Depreciation	\$280,878	\$280,878	\$281,068
3	Property Taxes	\$ -	\$17,768	\$17,768
5	Income Taxes (Grossed up)	\$9,717	\$9,774	\$10,538
6	Other Expenses	\$ -		
7	Return			
	Deemed Interest Expense	\$179,324	\$175,133	\$166,848
	Return on Deemed Equity	\$302,560	\$302,929	\$307,020
8	Service Revenue Requirement (before Revenues)	<u>\$1,982,593</u>	<u>\$1,996,596</u>	<u>\$1,958,356</u>
9	Revenue Offsets	\$207,894	\$208,216	\$214,216
10	Base Revenue Requirement (excluding Transformer Ownership Allowance credit adjustment)	<u>\$1,774,699</u>	<u>\$1,788,380</u>	<u>\$1,744,140</u>
11	Distribution revenue	\$1,774,699	\$1,788,380	\$1,744,140
12	Other revenue	\$207,894	\$208,216	\$214,216
13	Total revenue	<u>\$1,982,593</u>	<u>\$1,996,596</u>	<u>\$1,958,356</u>
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	<u>\$ -</u> ⁽¹⁾	<u>\$ -</u> ⁽¹⁾	<u>(\$0)</u> ⁽¹⁾

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application	Interrogatory Responses	Δ% ⁽²⁾	Per Board Decision	Δ% ⁽²⁾
Service Revenue Requirement	\$1,982,593	\$1,996,596	\$0	\$1,958,356	(\$1)
Grossed-Up Revenue					
Deficiency/(Sufficiency)	\$180,736	\$210,019	\$0	\$129,359	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$1,774,699	\$1,788,380	\$0	\$1,744,140	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$163,342	\$188,290	\$0	\$120,493	(\$1)

Notes

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

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 ⁽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	4,836	48,228,553	-	4,836	47,552,180	-	4,836	50,454,856	-
2	General Service < 50 kW	618	18,143,532	-	618	17,889,082	-	618	17,883,115	-
3	General Service > 50 to 4999 kW	89	81,021,489	211,046	89	79,885,218	212,831	89	85,142,906	221,782
4	Unmetered Scattered Load	10	429,307	-	10	422,721	4	10	432,358	-
5	Sentinel Lighting	57	84,029	238	57	82,740	240	57	84,626	240
6	Street Lighting	1,211	641,942	1,844	1,211	632,094	1,857	1,211	646,505	1,857
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
Total			148,548,851	213,128		146,464,034	214,932		154,644,367	223,879

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 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 ⁽³⁾	Costs Allocated from Previous Study ⁽¹⁾	%	Allocated Class Revenue Requirement ⁽¹⁾	%
From Sheet 10. Load Forecast				
			(7A)	
1 Residential	\$ 935,363	58.81%	\$ 1,187,516	60.64%
2 General Service < 50 kW	\$ 227,732	14.32%	\$ 293,420	14.98%
3 General Service > 50 to 4999 kW	\$ 398,722	25.07%	\$ 443,989	22.67%
4 Unmetered Scattered Load	\$ 1,202	0.08%	\$ 3,209	0.16%
5 Sentinel Lighting	\$ 1,333	0.08%	\$ 2,306	0.12%
6 Street Lighting	\$ 26,213	1.65%	\$ 27,915	1.43%
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
Total	\$ 1,590,565	100.00%	\$ 1,958,355	100.00%
Allocated Revenue Requirement does not match Base Revenue Requirement from Sheet 9. Check data.			\$ 1,744,140.47	

- (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	\$ 947,893	\$ 1,018,238	\$ 1,017,397	\$ 150,470
2 General Service < 50 kW	\$ 223,727	\$ 240,330	\$ 241,185	\$ 49,657
3 General Service > 50 to 4999 kW	\$ 428,586	\$ 460,392	\$ 460,397	\$ 11,341
4 Unmetered Scattered Load	\$ 2,448	\$ 2,630	\$ 2,627	\$ 296
5 Sentinel Lighting	\$ 1,921	\$ 2,063	\$ 2,065	\$ 187
6 Street Lighting	\$ 19,072	\$ 20,487	\$ 20,469	\$ 2,265
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
Total	\$ 1,623,647	\$ 1,744,140	\$ 1,744,140	\$ 214,216

- (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 Most Recent Year: 2014 %	Status Quo Ratios (7C + 7E) / (7A) %	Proposed Ratios (7D + 7E) / (7A) %	Policy Range %
1 Residential	100.00%	98.42%	98.35%	85 - 115
2 General Service < 50 kW	98.00%	98.83%	99.12%	85 - 115
3 General Service > 50 to 4999 kW	100.00%	106.25%	106.25%	80 - 120
4 Unmetered Scattered Load	70.00%	91.19%	91.10%	80 - 120
5 Sentinel Lighting	120.00%	97.58%	97.67%	80 - 120
6 Street Lighting	120.00%	81.50%	81.44%	80 - 120
7				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 ⁽¹¹⁾

Name of Customer Class	Proposed Revenue-to-Cost Ratio			Policy Range
	Test Year	Price Cap IR Period		
	2018	2019	2020	
1 Residential	98.35%	98.35%	98.35%	85 - 115
2 General Service < 50 kW	99.12%	99.12%	99.12%	85 - 115
3 General Service > 50 to 4999 kW	106.25%	106.25%	106.25%	80 - 120
4 Unmetered Scattered Load	91.10%	91.10%	91.10%	80 - 120
5 Sentinel Lighting	97.67%	97.67%	97.67%	80 - 120
6 Street Lighting	81.44%	81.44%	81.44%	80 - 120
7				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'.

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	4,836
kWh	50,454,856

Proposed Residential Class Specific Revenue Requirement ¹	\$ 1,017,397.00
--	-----------------

Residential Base Rates on Current Tariff	
Monthly Fixed Charge (\$)	11.90
Distribution Volumetric Rate (\$/kWh)	0.0051

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	11.9	4,836	\$ 690,573.46	72.85%
Variable	0.0051	50,454,856	\$ 257,319.77	27.15%
TOTAL	-	-	\$ 947,893.23	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy Transition Years ²	2
--	---

	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	\$ 741,209.40	12.77	\$ 741,060.77
Variable	\$ 276,187.60	0.0055	\$ 277,501.71
TOTAL	\$ 1,017,397.00	-	\$ 1,018,562.48

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed	86.43%	\$ 879,303.20	15.15	\$ 879,175.46
Variable	13.57%	\$ 138,093.80	0.0027	\$ 136,228.11
TOTAL	-	\$ 1,017,397.00	-	\$ 1,015,403.57

Checks ³	
Change in Fixed Rate	\$ 2.38
Difference Between Revenues @ Proposed Rates and Class Specific	(\$1,993)
	-0.20%

Notes:

- ¹ The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- ² The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. A distributor transitioning to fully fixed rates over a four year period and began the transition in 2016 would input the number "3" into cell D40. A distributor transitioning over a five-year period would input the number "4". Where the change in the residential rate design will result in the fixed charge increasing by more than \$4/year, a distributor may propose an additional transition year.
- ³ Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

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																
Customer and Load Forecast					Class Allocated Revenues			Fixed / Variable Splits ²		Distribution Rates			Revenue Reconciliation					
Customer Class	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (\$)	Monthly Service Charge Rate	No. of decimals	Volumetric Rate Rate	No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance	
From sheet 10. Load Forecast					From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design			Percentage to be entered as a fraction between 0 and 1										
1 Residential	kWh	4,836	50,454,856	-	\$ 1,017,397	\$ 879,133	\$ 138,264	86.41%	13.59%		\$15.15	2	\$0.0027 /kWh	4	\$ 879,175.46	\$ 136,228.1117	\$ 1,015,403.57	
2 General Service < 50 kW	kWh	618	17,883,115	-	\$ 241,185	\$ 114,635	\$ 126,550	47.53%	52.47%		\$15.47		\$0.0071 /kWh		\$ 114,640.36	\$ 126,970.1179	\$ 241,610.48	
3 General Service > 50 to 4999 kW	kW	89	85,142,906	221,782	\$ 460,397	\$ 107,687	\$ 352,710	23.39%	76.61%	\$ 113,523	\$101.01		\$2.1022 /kW		\$ 107,689.21	\$ 466,229.6522	\$ 460,395.86	
4 Unmetered Scattered Load	kWh	10	432,358	-	\$ 2,627	\$ 818	\$ 1,809	31.12%	68.88%		\$7.12		\$0.0042 /kWh		\$ 818.04	\$ 1,815.9055	\$ 2,633.95	
5 Sentinel Lighting	kW	57	84,626	240	\$ 2,065	\$ 1,130	\$ 935	54.72%	45.28%		\$1.66		\$3.8960 /kW		\$ 1,130.06	\$ 935.0400	\$ 2,065.10	
6 Street Lighting	kW	1,211	646,505	1,857	\$ 20,469	\$ 8,581	\$ 11,888	41.92%	58.08%		\$0.59		\$6.4020 /kW		\$ 8,576.47	\$ 11,888.3072	\$ 20,464.78	
7															\$ -	\$ -	\$ -	
8															\$ -	\$ -	\$ -	
9															\$ -	\$ -	\$ -	
10															\$ -	\$ -	\$ -	
11															\$ -	\$ -	\$ -	
12															\$ -	\$ -	\$ -	
13															\$ -	\$ -	\$ -	
14															\$ -	\$ -	\$ -	
15															\$ -	\$ -	\$ -	
16															\$ -	\$ -	\$ -	
17															\$ -	\$ -	\$ -	
18															\$ -	\$ -	\$ -	
19															\$ -	\$ -	\$ -	
20															\$ -	\$ -	\$ -	
Total Transformer Ownership Allowance										\$ 113,523								
Rates recover revenue requirement															Total Distribution Revenues		\$ 1,742,573.74	
															Base Revenue Requirement		\$ 1,744,140.47	
															Difference		\$ -1,566.73	
															% Difference		-0.090%	

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).

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.

⁽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	\$ 481,883	5.59%	\$ 8,615,028	\$ 20,729,716	\$ 1,554,729	\$ 280,878	\$ 9,717	\$ 1,210,114	\$ 1,982,593	\$ 207,894	\$ 1,774,699	\$ 180,736
1 3-VECC-16	Correction of HDD/CDD formula (avg)	\$ 481,992	5.59%	\$ 8,616,977	\$ 20,755,691	\$ 1,556,677	\$ 280,878	\$ 9,729	\$ 1,210,114	\$ 1,982,714	\$ 207,894	\$ 1,774,820	\$ 179,615

B. 2017 and 2018 Fixed Asset Continuity Schedule

Year 2018 IFRS

CCA Class	OEB	Description	Cost					Accumulated Depreciation					AVG Gross Bal	AVG AccDep	
			Opening Balance	CGAAP to IFRS Adjustments	Additions	Disposals	Closing Balance	Opening Balance	CGAAP to IFRS Adjustments	Additions	Disposals	Closing Balance			Net Book Value
12	1611	Computer Software (Formally known as Account 1925)	\$108,970	\$0	\$1,000	\$0	\$109,970	\$66,818	\$0	\$16,151	\$-	\$82,969	\$27,001	\$109,470	\$74,893
CEC	1612	Land Rights (Formally known as Account 1906 and 1806)	\$5,980	\$0	\$0	\$0	\$5,980	\$0	\$0	\$0	\$-	\$0	\$5,980	\$5,980	\$0
N/A	1805	Land	\$20,000	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$-	\$0	\$20,000	\$20,000	\$0
47	1808	Buildings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
13	1810	Leasehold Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1815	Transformer Station Equipment >50 kV	\$3,960,936	\$0	\$0	\$0	\$3,960,936	\$47,325	\$0	\$89,526	\$-	\$136,851	\$3,824,085	\$3,960,936	\$92,088
47	1820	Distribution Station Equipment <50 kV	\$1,352,740	\$0	\$0	\$0	\$1,352,740	\$130,728	\$0	\$32,629	\$-	\$163,357	\$1,189,383	\$1,352,740	\$147,042
47	1825	Storage Battery Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1830	Poles, Towers & Fixtures	\$641,973	\$0	\$81,500	\$0	\$723,473	\$85,025	\$0	\$27,156	\$-	\$112,181	\$611,292	\$682,723	\$98,603
47	1835	Overhead Conductors & Devices	\$355,302	\$0	\$27,930	\$0	\$383,232	\$43,877	\$0	\$12,168	\$-	\$56,045	\$327,187	\$369,267	\$49,961
47	1840	Underground Conduit	\$39,269	\$0	\$0	\$0	\$39,269	\$10,747	\$0	\$2,553	\$-	\$13,300	\$25,969	\$39,269	\$12,024
47	1845	Underground Conductors & Devices	\$146,215	\$0	\$20,000	\$0	\$166,215	\$38,397	\$0	\$9,333	\$-	\$47,730	\$118,485	\$156,215	\$43,063
47	1850	Line Transformers	\$229,515	\$0	\$17,350	\$0	\$246,865	\$38,730	\$0	\$10,042	\$-	\$48,772	\$198,093	\$238,190	\$43,751
47	1855	Services (Overhead & Underground)	\$26,759	\$0	\$3,500	\$0	\$30,259	\$4,657	\$0	\$1,271	\$-	\$5,928	\$24,331	\$28,509	\$5,293
47	1860	Meters	\$7,143	\$0	\$0	\$0	\$7,143	\$1,267	\$0	\$317	\$-	\$1,584	\$5,559	\$7,143	\$1,426
47	1860	Meters (Smart Meters)	\$559,777	\$0	\$14,300	\$0	\$574,077	\$170,036	\$0	\$45,601	\$-	\$215,637	\$358,440	\$566,927	\$192,836
N/A	1905	Land	\$28,300	\$0	\$0	\$0	\$28,300	\$0	\$0	\$0	\$-	\$0	\$28,300	\$28,300	\$0
47	1908	Buildings & Fixtures	\$678,821	\$0	\$2,000	\$0	\$678,821	\$137,913	\$0	\$35,489	\$-	\$173,402	\$505,419	\$677,821	\$155,658
13	1910	Leasehold Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
8	1915	Office Furniture & Equipment (10 years)	\$27,584	\$0	\$3,750	\$0	\$31,334	\$13,127	\$0	\$3,441	\$-	\$16,568	\$14,766	\$29,459	\$14,847
8	1915	Office Furniture & Equipment (5 years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
10	1920	Computer Equipment - Hardware	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
45	1920	Computer Equip.-Hardware(Post Mar. 22/04)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
45.1	1920	Computer Equip.-Hardware(Post Mar. 19/07)	\$11,389	\$0	\$4,500	\$0	\$15,889	\$8,183	\$0	\$1,612	\$-	\$9,795	\$6,094	\$13,639	\$8,989
10	1930	Transportation Equipment	\$6,392	\$0	\$0	\$0	\$6,392	\$6,392	\$0	\$0	\$-	\$6,392	\$0	\$6,392	\$6,392
8	1935	Stores Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
8	1940	Tools, Shop & Garage Equipment	\$20,977	\$0	\$0	\$0	\$20,977	\$9,186	\$0	\$2,469	\$-	\$11,655	\$9,322	\$20,977	\$10,421
8	1945	Measurement & Testing Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
8	1950	Power Operated Equipment	\$2,222	\$0	\$0	\$0	\$2,222	\$870	\$0	\$292	\$-	\$1,162	\$1,060	\$2,222	\$1,016
8	1955	Communications Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
8	1955	Communication Equipment (Smart Meters)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
8	1960	Miscellaneous Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1970	Load Management Controls Customer Premises	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1975	Load Management Controls Utility Premises	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1980	System Supervisor Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1985	Miscellaneous Fixed Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1990	Other Tangible Property	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
47	1995	Contributions & Grants	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
N/A	2055	Construction in progress	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
	etc.	Contributions & Grants	-\$337,664	\$0	-\$10,000	\$0	-\$347,664	-\$30,189	\$0	-\$8,982	\$-	-\$39,171	-\$308,493	-\$342,664	-\$34,680
			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-	\$0	\$0	\$0	\$0
		Sub-Total	\$7,890,599	\$0	\$165,830	\$0	\$8,056,429	\$783,088	\$0	\$281,068	\$-	\$1,064,156	\$6,992,273	\$7,973,514	\$923,622
		Less Socialized Renewable Energy Generation Investments (input as negative)					\$0					\$0	\$0		
		Less Other Non Rate-Regulated Utility Assets (input as negative)					\$0					\$0	\$0		
		Total PP&E	\$7,890,599		\$165,830	\$0	\$8,056,429	\$783,088		\$281,068	\$-	\$1,064,156	\$6,992,273		
		Depreciation Expense adj. from gain or loss on the retirement of assets (pool of like assets)													
		Total													\$281,068

10	Transportation
8	Stores Equipment
8	Tools, Shop
8	Meas/Testing
8	Communication

Less: Fully Allocated Depreciation
 Transportation
 Stores Equipment
 Tools, Shop
 Meas/Testing
 Communication
Net Depreciation

\$281,068

C. Bill Impacts

Table 2

RATE CLASSES / CATEGORIES <i>(eg: Residential TOU, Residential Retailer)</i>	Units	Sub-Total						Total	
		A		B		C		A + B + C	
		\$	%	\$	%	\$	%	\$	%
1 RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$ (21.02)	-127.2%	\$ (23.24)	-114.1%	\$ (22.71)	-78.6%	\$ (24.69)	-24.8%
2 GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	\$ (2.39)	-8.4%	\$ (9.73)	-25.2%	\$ (8.53)	-14.4%	\$ (11.19)	-4.3%
3 GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION - Non-RPP (Retailer)	kW	\$ (166.92)	-28.2%	\$ (421.63)	-64.8%	\$ (358.82)	-22.3%	\$ (452.50)	-8.5%
4 UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	\$ (6.41)	-26.1%	\$ (25.51)	-46.6%	\$ (22.75)	-22.3%	\$ (31.26)	-4.2%
5 SENTINEL LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kWh	\$ (71.73)	-13.7%	\$ (89.81)	-15.7%	\$ (89.81)	-15.7%	\$ (101.68)	-15.3%
6 STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kWh	\$ (2,104.62)	-2.3%	\$ (22,344.12)	-24.0%	\$ (22,344.12)	-24.0%	\$ (25,272.91)	-23.6%
7 RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	\$ (21.02)	-127.2%	\$ (20.38)	-94.8%	\$ (20.38)	-94.8%	\$ (22.24)	-19.6%
8 RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$ (19.92)	-139.5%	\$ (20.24)	-127.3%	\$ (20.24)	-127.3%	\$ (21.60)	-47.3%
9 RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	\$ (19.92)	-139.5%	\$ (19.05)	-116.4%	\$ (19.05)	-116.4%	\$ (20.35)	-37.0%
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Customer Class: **RESIDENTIAL SERVICE CLASSIFICATION**

RPP / Non-RPP: **RPP**

Consumption	750	kWh
Demand	-	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 11.90	1	\$ 11.90	\$ 15.15	1	\$ 15.15	\$ 3.25	27.31%
Distribution Volumetric Rate	\$ 0.0051	750	\$ 3.83	\$ 0.0027	750	\$ 2.03	\$ (1.80)	-47.06%
Fixed Rate Riders	\$ 0.79	1	\$ 0.79	\$ (21.60)	1	\$ (21.60)	\$ (22.39)	-2834.18%
Volumetric Rate Riders	\$ -	750	\$ -	\$ 0.0001	750	\$ (0.08)	\$ (0.08)	
Sub-Total A (excluding pass through)			\$ 16.52			\$ (4.50)	\$ (21.02)	-127.25%
Line Losses on Cost of Power	\$ 0.0822	41	\$ 3.33	\$ 0.0822	38	\$ 3.14	\$ (0.20)	-5.91%
Total Deferral/Variance Account Rate Riders	\$ -	750	\$ -	\$ 0.0048	750	\$ (3.60)	\$ (3.60)	
GA Rate Riders	\$ 0	750	\$ -	\$ -	750	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0007	750	\$ 0.53	\$ 0.0014	750	\$ 1.05	\$ 0.53	100.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ 1.0478	1	\$ 1.05	\$ 1.05	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 20.37			\$ (2.87)	\$ (23.24)	-114.07%
RTSR - Network	\$ 0.0072	791	\$ 5.69	\$ 0.0074	788	\$ 5.83	\$ 0.14	2.47%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0036	791	\$ 2.85	\$ 0.0041	788	\$ 3.23	\$ 0.39	13.54%
Sub-Total C - Delivery (including Sub-Total B)			\$ 28.91			\$ 6.20	\$ (22.71)	-78.56%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	791	\$ 2.85	\$ 0.0036	788	\$ 2.84	\$ (0.01)	-0.30%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	791	\$ 1.03	\$ 0.0003	788	\$ 0.24	\$ (0.79)	-76.99%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)								
TOU - Off Peak	\$ 0.0650	488	\$ 31.69	\$ 0.0650	488	\$ 31.69	\$ -	0.00%
TOU - Mid Peak	\$ 0.0950	128	\$ 12.11	\$ 0.0950	128	\$ 12.11	\$ -	0.00%
TOU - On Peak	\$ 0.1320	135	\$ 17.82	\$ 0.1320	135	\$ 17.82	\$ -	0.00%
Total Bill on TOU (before Taxes)			\$ 94.66			\$ 71.14	\$ (23.51)	-24.84%
HST	13%		\$ 12.31	13%		\$ 9.25	\$ (3.06)	-24.84%
8% Rebate	8%		\$ (7.57)	8%		\$ (5.69)	\$ 1.88	
Total Bill on TOU			\$ 99.39			\$ 74.70	\$ (24.69)	-24.84%

Customer Class: **GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION**

RPP / Non-RPP: **RPP**

Consumption **2,000** kWh
 Demand **-** kW
 Current Loss Factor **1.0541**
 Proposed/Approved Loss Factor **1.0509**

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 15.47	1	\$ 15.47	\$ 15.47	1	\$ 15.47	\$ -	0.00%
Distribution Volumetric Rate	\$ 0.0061	2000	\$ 12.20	\$ 0.0071	2000	\$ 14.20	\$ 2.00	16.39%
Fixed Rate Riders	\$ 0.79	1	\$ 0.79	\$ -	1	\$ -	\$ (0.79)	-100.00%
Volumetric Rate Riders	\$ -	2000	\$ -	\$ 0.0018	2000	\$ (3.60)	\$ (3.60)	
Sub-Total A (excluding pass through)			\$ 28.46			\$ 26.07	\$ (2.39)	-8.40%
Line Losses on Cost of Power	\$ 0.0822	108	\$ 8.89	\$ 0.0822	102	\$ 8.36	\$ (0.53)	-5.91%
Total Deferral/Variance Account Rate Riders	\$ -	2,000	\$ -	\$ 0.0045	2,000	\$ (9.00)	\$ (9.00)	
GA Rate Riders	\$ 0	2,000	\$ -	\$ -	2,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0006	2,000	\$ 1.20	\$ 0.0013	2,000	\$ 2.60	\$ 1.40	116.67%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ 0.7900	1	\$ 0.79	\$ 0.79	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 38.55			\$ 28.82	\$ (9.73)	-25.23%
RTSR - Network	\$ 0.0066	2,108	\$ 13.91	\$ 0.0068	2,102	\$ 14.29	\$ 0.38	2.72%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0032	2,108	\$ 6.75	\$ 0.0036	2,102	\$ 7.57	\$ 0.82	12.16%
Sub-Total C - Delivery (including Sub-Total B)			\$ 59.21			\$ 50.68	\$ (8.53)	-14.40%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	2,108	\$ 7.59	\$ 0.0036	2,102	\$ 7.57	\$ (0.02)	-0.30%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	2,108	\$ 2.74	\$ 0.0003	2,102	\$ 0.63	\$ (2.11)	-76.99%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	2,000	\$ 14.00	\$ 0.0070	2,000	\$ 14.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0650	1,300	\$ 84.50	\$ 0.0650	1,300	\$ 84.50	\$ -	0.00%
TOU - Mid Peak	\$ 0.0950	340	\$ 32.30	\$ 0.0950	340	\$ 32.30	\$ -	0.00%
TOU - On Peak	\$ 0.1320	360	\$ 47.52	\$ 0.1320	360	\$ 47.52	\$ -	0.00%
Total Bill on TOU (before Taxes)			\$ 248.11			\$ 237.45	\$ (10.66)	-4.30%
HST	13%		\$ 32.25	13%		\$ 30.87	\$ (1.39)	-4.30%
8% Rebate	8%		\$ (19.85)	8%		\$ (19.00)	\$ 0.85	
Total Bill on TOU			\$ 260.52			\$ 249.32	\$ (11.19)	-4.30%

Customer Class:	GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	24,000	kWh
Demand	240	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 100.99	1	\$ 100.99	\$ 100.99	1	\$ 100.99	\$ -	0.00%
Distribution Volumetric Rate	\$ 2.0470	240	\$ 491.28	\$ 2.1023	240	\$ 504.55	\$ 13.27	2.70%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	240	\$ -	\$ 0.7508	240	\$ (180.19)	\$ (180.19)	
Sub-Total A (excluding pass through)			\$ 592.27			\$ 425.35	\$ (166.92)	-28.18%
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	\$ -	240	\$ -	\$ 1.7278	240	\$ (414.67)	\$ (414.67)	
GA Rate Riders	\$ 0	24,000	\$ -	\$ 0.0039	24,000	\$ 93.60	\$ 93.60	
Low Voltage Service Charge	\$ 0.2419	240	\$ 58.06	\$ 0.5184	240	\$ 124.42	\$ 66.36	114.30%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 650.33			\$ 228.69	\$ (421.63)	-64.83%
RTSR - Network	\$ 2.6887	240	\$ 645.29	\$ 2.7786	240	\$ 666.86	\$ 21.58	3.34%
RTSR - Connection and/or Line and Transformation Connection	\$ 1.3018	240	\$ 312.43	\$ 1.4736	240	\$ 353.66	\$ 41.23	13.20%
Sub-Total C - Delivery (including Sub-Total B)			\$ 1,608.05			\$ 1,249.22	\$ (358.82)	-22.31%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	25,298	\$ 91.07	\$ 0.0032	25,222	\$ 80.71	\$ (10.37)	-11.38%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	25,298	\$ 32.89	\$ 0.0004	25,222	\$ 10.09	\$ (22.80)	-69.32%
Standard Supply Service Charge	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Debt Retirement Charge (DRC)	\$ 0.0070	24,000	\$ 168.00	\$ 0.0070	24,000	\$ 168.00	\$ -	0.00%
Non-RPP Retailer Avg. Price	\$ 0.1101	25,298	\$ 2,785.35	\$ 0.1101	25,222	\$ 2,776.90	\$ (8.46)	-0.30%
Total Bill on Non-RPP Avg. Price			\$ 4,685.36			\$ 4,284.92	\$ (400.44)	-8.55%
HST	13%		\$ 609.10	13%		\$ 557.04	\$ (52.06)	-8.55%
Total Bill on Non-RPP Avg. Price			\$ 5,294.46			\$ 4,841.96	\$ (452.50)	-8.55%

Customer Class:	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	4,600	kWh
Demand	-	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 6.63	1	\$ 6.63	\$ 7.12	1	\$ 7.12	\$ 0.49	7.39%
Distribution Volumetric Rate	\$ 0.0039	4600	\$ 17.94	\$ 0.0042	4600	\$ 19.32	\$ 1.38	7.69%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	4600	\$ -	\$ 0.0018	4600	\$ (8.28)	\$ (8.28)	
Sub-Total A (excluding pass through)			\$ 24.57			\$ 18.16	\$ (6.41)	-26.09%
Line Losses on Cost of Power	\$ 0.1101	249	\$ 27.40	\$ 0.1101	234	\$ 25.78	\$ (1.62)	-5.91%
Total Deferral/Variance Account Rate Riders	\$ -	4,600	\$ -	\$ 0.0045	4,600	\$ (20.70)	\$ (20.70)	
GA Rate Riders	\$ 0	4,600	\$ -	\$ -	4,600	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0006	4,600	\$ 2.76	\$ 0.0013	4,600	\$ 5.98	\$ 3.22	116.67%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 54.73			\$ 29.22	\$ (25.51)	-46.61%
RTSR - Network	\$ 0.0066	4,849	\$ 32.00	\$ 0.0068	4,834	\$ 32.87	\$ 0.87	2.72%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0032	4,849	\$ 15.52	\$ 0.0036	4,834	\$ 17.40	\$ 1.89	12.16%
Sub-Total C - Delivery (including Sub-Total B)			\$ 102.25			\$ 79.49	\$ (22.75)	-22.25%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	4,849	\$ 17.46	\$ 0.0036	4,834	\$ 17.40	\$ (0.05)	-0.30%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	4,849	\$ 6.30	\$ 0.0003	4,834	\$ 1.45	\$ (4.85)	-76.99%
Standard Supply Service Charge	\$ -		\$ -	\$ -		\$ -	\$ -	
Debt Retirement Charge (DRC)	\$ 0.0070	4,600	\$ 32.20	\$ 0.0070	4,600	\$ 32.20	\$ -	0.00%
Non-RPP Retailer Avg. Price	\$ 0.1101	4,600	\$ 506.46	\$ 0.1101	4,600	\$ 506.46	\$ -	0.00%
Total Bill on Non-RPP Avg. Price			\$ 664.67			\$ 637.01	\$ (27.66)	-4.16%
HST	13%		\$ 86.41	13%		\$ 82.81	\$ (3.60)	-4.16%
Total Bill on Non-RPP Avg. Price			\$ 751.07			\$ 719.82	\$ (31.26)	-4.16%

Customer Class:	SENTINEL LIGHTING SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Other)	
Consumption	123	kWh
Demand	-	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 1.66	72	\$ 119.52	\$ 1.66	72	\$ 119.52	\$ -	0.00%
Distribution Volumetric Rate	\$ 3.2940	123	\$ 405.16	\$ 3.8960	123	\$ 479.21	\$ 74.05	18.28%
Fixed Rate Riders	\$ -	72	\$ -	\$ -	72	\$ -	\$ -	
Volumetric Rate Riders	\$ -	123	\$ -	\$ 1.1852	123	\$ (145.78)	\$ (145.78)	
Sub-Total A (excluding pass through)			\$ 524.68			\$ 452.95	\$ (71.73)	-13.67%
Line Losses on Cost of Power	\$ 0.1101	7	\$ 0.73	\$ 0.1101	6	\$ 0.69	\$ (0.04)	-5.91%
Total Deferral/Variance Account Rate Riders	\$ -	123	\$ -	\$ 1.5870	123	\$ (195.20)	\$ (195.20)	
GA Rate Riders	\$ 0	123	\$ -	\$ 0.0039	123	\$ 0.48	\$ 0.48	
Low Voltage Service Charge	\$ 0.3818	123	\$ 46.96	\$ 1.8183	123	\$ 223.65	\$ 176.69	376.24%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 572.38			\$ 482.57	\$ (89.81)	-15.69%
RTSR - Network	\$ -	130	\$ -	\$ -	129	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	130	\$ -	\$ -	129	\$ -	\$ -	
Sub-Total C - Delivery (including Sub-Total B)			\$ 572.38			\$ 482.57	\$ (89.81)	-15.69%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	130	\$ 0.47	\$ 0.0032	129	\$ 0.41	\$ (0.05)	-11.38%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	130	\$ 0.17	\$ 0.0004	129	\$ 0.05	\$ (0.12)	-69.32%
Standard Supply Service Charge	\$ -		\$ -	\$ -		\$ -	\$ -	
Debt Retirement Charge (DRC)	\$ 0.0070	123	\$ 0.86	\$ 0.0070	123	\$ 0.86	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1101	123	\$ 13.54	\$ 0.1101	123	\$ 13.54	\$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			\$ 587.41			\$ 497.44	\$ (89.98)	-15.32%
HST	13%		\$ 76.36	13%		\$ 64.67	\$ (11.70)	-15.32%
Total Bill on Average IESO Wholesale Market Price			\$ 663.78			\$ 562.10	\$ (101.68)	-15.32%

Customer Class:	STREET LIGHTING SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Other)	
Consumption	15,000	kWh
Demand	-	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 0.55	1197	\$ 658.35	\$ 0.59	1197	\$ 706.23	\$ 47.88	7.27%
Distribution Volumetric Rate	\$ 5.9651	15000	\$ 89,476.50	\$ 6.4020	15000	\$ 96,030.00	\$ 6,553.50	7.32%
Fixed Rate Riders	\$ -	1197	\$ -	\$ -	1197	\$ -	\$ -	
Volumetric Rate Riders	\$ -	15000	\$ -	\$ 0.5804	15000	\$ (8,706.00)	\$ (8,706.00)	
Sub-Total A (excluding pass through)			\$ 90,134.85			\$ 88,030.23	\$ (2,104.62)	-2.33%
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	\$ -	15,000	\$ -	\$ 1.5669	15,000	\$ (23,503.50)	\$ (23,503.50)	
GA Rate Riders	\$ 0	15,000	\$ -	\$ 0.0039	15,000	\$ 58.50	\$ 58.50	
Low Voltage Service Charge	\$ 0.1870	15,000	\$ 2,805.00	\$ 0.4007	15,000	\$ 6,010.50	\$ 3,205.50	114.28%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 92,939.85			\$ 70,595.73	\$ (22,344.12)	-24.04%
RTSR - Network	\$ -	15,812	\$ -	\$ -	15,764	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	15,812	\$ -	\$ -	15,764	\$ -	\$ -	
Sub-Total C - Delivery (including Sub-Total B)			\$ 92,939.85			\$ 70,595.73	\$ (22,344.12)	-24.04%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	15,812	\$ 56.92	\$ 0.0036	15,764	\$ 56.75	\$ (0.17)	-0.30%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	15,812	\$ 20.55	\$ 0.0003	15,764	\$ 4.73	\$ (15.83)	-76.99%
Standard Supply Service Charge	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Debt Retirement Charge (DRC)	\$ 0.0070	15,000	\$ 105.00	\$ 0.0070	15,000	\$ 105.00	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1101	15,812	\$ 1,740.85	\$ 0.1101	15,764	\$ 1,735.56	\$ (5.28)	-0.30%
Total Bill on Average IESO Wholesale Market Price			\$ 94,863.17			\$ 72,497.77	\$ (22,365.40)	-23.58%
HST	13%		\$ 12,332.21	13%		\$ 9,424.71	\$ (2,907.50)	-23.58%
Total Bill on Average IESO Wholesale Market Price			\$ 107,195.38			\$ 81,922.48	\$ (25,272.91)	-23.58%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	750	kWh
Demand	-	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 11.90	1	\$ 11.90	\$ 15.15	1	\$ 15.15	\$ 3.25	27.31%
Distribution Volumetric Rate	\$ 0.0051	750	\$ 3.83	\$ 0.0027	750	\$ 2.03	\$ (1.80)	-47.06%
Fixed Rate Riders	\$ 0.79	1	\$ 0.79	\$ (21.60)	1	\$ (21.60)	\$ (22.39)	-2834.18%
Volumetric Rate Riders	\$ -	750	\$ -	\$ 0.0001	750	\$ (0.08)	\$ (0.08)	
Sub-Total A (excluding pass through)			\$ 16.52			\$ (4.50)	\$ (21.02)	-127.25%
Line Losses on Cost of Power	\$ 0.1101	41	\$ 4.47	\$ 0.1101	38	\$ 4.20	\$ (0.26)	-5.91%
Total Deferral/Variance Account Rate Riders	\$ -	750	\$ -	\$ 0.0048	750	\$ (3.60)	\$ (3.60)	
GA Rate Riders	0	750	\$ -	\$ 0.0039	750	\$ 2.93	\$ 2.93	
Low Voltage Service Charge	\$ 0.0007	750	\$ 0.53	\$ 0.0014	750	\$ 1.05	\$ 0.53	100.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ 1.0478	1	\$ 1.05	\$ 1.05	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 21.51			\$ 1.13	\$ (20.38)	-94.77%
RTSR - Network	\$ -	791	\$ -	\$ -	788	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	791	\$ -	\$ -	788	\$ -	\$ -	
Sub-Total C - Delivery (including Sub-Total B)			\$ 21.51			\$ 1.13	\$ (20.38)	-94.77%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	791	\$ 2.85	\$ 0.0036	788	\$ 2.84	\$ (0.01)	-0.30%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	791	\$ 1.03	\$ 0.0003	788	\$ 0.24	\$ (0.79)	-76.99%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
Non-RPP Retailer Avg. Price	\$ 0.1101	750	\$ 82.58	\$ 0.1101	750	\$ 82.58	\$ -	0.00%
Total Bill on Non-RPP Avg. Price			\$ 107.96			\$ 86.77	\$ (21.18)	-19.62%
HST	13%		\$ 14.03	13%		\$ 11.28	\$ (2.75)	-19.62%
8% Rebate	8%		\$ (8.64)	8%		\$ (6.94)		
Total Bill on Non-RPP Avg. Price			\$ 113.35			\$ 91.11	\$ (22.24)	-19.62%

Customer Class: **RESIDENTIAL SERVICE CLASSIFICATION**

RPP / Non-RPP: **RPP**

Consumption	313	kWh
Demand	-	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 11.90	1	\$ 11.90	\$ 15.15	1	\$ 15.15	\$ 3.25	27.31%
Distribution Volumetric Rate	\$ 0.0051	313	\$ 1.60	\$ 0.0027	313	\$ 0.85	\$ (0.75)	-47.06%
Fixed Rate Riders	\$ 0.79	1	\$ 0.79	\$ (21.60)	1	\$ (21.60)	\$ (22.39)	-2834.18%
Volumetric Rate Riders	\$ -	313	\$ -	\$ 0.0001	313	\$ (0.03)	\$ (0.03)	
Sub-Total A (excluding pass through)			\$ 14.29			\$ (5.64)	\$ (19.92)	-139.45%
Line Losses on Cost of Power	\$ 0.0822	17	\$ 1.39	\$ 0.0822	16	\$ 1.31	\$ (0.08)	-5.91%
Total Deferral/Variance Account Rate Riders	\$ -	313	\$ -	\$ 0.0048	313	\$ (1.50)	\$ (1.50)	
GA Rate Riders	\$ 0	313	\$ -	\$ -	313	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0007	313	\$ 0.22	\$ 0.0014	313	\$ 0.44	\$ 0.22	100.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ 1.0478	1	\$ 1.05	\$ 1.05	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 15.90			\$ (4.34)	\$ (20.24)	-127.32%
RTSR - Network	\$ -	330	\$ -	\$ -	329	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	330	\$ -	\$ -	329	\$ -	\$ -	
Sub-Total C - Delivery (including Sub-Total B)			\$ 15.90			\$ (4.34)	\$ (20.24)	-127.32%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	330	\$ 1.19	\$ 0.0036	329	\$ 1.18	\$ (0.00)	-0.30%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	330	\$ 0.43	\$ 0.0003	329	\$ 0.10	\$ (0.33)	-76.99%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)								
TOU - Off Peak	\$ 0.0650	203	\$ 13.22	\$ 0.0650	203	\$ 13.22	\$ -	0.00%
TOU - Mid Peak	\$ 0.0950	53	\$ 5.05	\$ 0.0950	53	\$ 5.05	\$ -	0.00%
TOU - On Peak	\$ 0.1320	56	\$ 7.44	\$ 0.1320	56	\$ 7.44	\$ -	0.00%
Total Bill on TOU (before Taxes)			\$ 43.48			\$ 22.91	\$ (20.57)	-47.32%
HST	13%		\$ 5.65	13%		\$ 2.98	\$ (2.67)	-47.32%
8% Rebate	8%		\$ (3.48)	8%		\$ (1.83)	\$ 1.65	
Total Bill on TOU			\$ 45.65			\$ 24.05	\$ (21.60)	-47.32%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	313	kWh
Demand	-	kW
Current Loss Factor	1.0541	
Proposed/Approved Loss Factor	1.0509	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 11.90	1	\$ 11.90	\$ 15.15	1	\$ 15.15	\$ 3.25	27.31%
Distribution Volumetric Rate	\$ 0.0051	313	\$ 1.60	\$ 0.0027	313	\$ 0.85	\$ (0.75)	-47.06%
Fixed Rate Riders	\$ 0.79	1	\$ 0.79	\$ (21.60)	1	\$ (21.60)	\$ (22.39)	-2834.18%
Volumetric Rate Riders	\$ -	313	\$ -	\$ 0.0001	313	\$ (0.03)	\$ (0.03)	
Sub-Total A (excluding pass through)			\$ 14.29			\$ (5.64)	\$ (19.92)	-139.45%
Line Losses on Cost of Power	\$ 0.1101	17	\$ 1.86	\$ 0.1101	16	\$ 1.75	\$ (0.11)	-5.91%
Total Deferral/Variance Account Rate Riders	\$ -	313	\$ -	\$ 0.0048	313	\$ (1.50)	\$ (1.50)	
GA Rate Riders	0	313	\$ -	\$ 0.0039	313	\$ 1.22	\$ 1.22	
Low Voltage Service Charge	\$ 0.0007	313	\$ 0.22	\$ 0.0014	313	\$ 0.44	\$ 0.22	100.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ 1.0478	1	\$ 1.05	\$ 1.05	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 16.37			\$ (2.68)	\$ (19.05)	-116.36%
RTSR - Network	\$ -	330	\$ -	\$ -	329	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	330	\$ -	\$ -	329	\$ -	\$ -	
Sub-Total C - Delivery (including Sub-Total B)			\$ 16.37			\$ (2.68)	\$ (19.05)	-116.36%
Wholesale Market Service Charge (WMSC)	\$ 0.0036	330	\$ 1.19	\$ 0.0036	329	\$ 1.18	\$ (0.00)	-0.30%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	330	\$ 0.43	\$ 0.0003	329	\$ 0.10	\$ (0.33)	-76.99%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
Non-RPP Retailer Avg. Price	\$ 0.1101	313	\$ 34.46	\$ 0.1101	313	\$ 34.46	\$ -	0.00%
Total Bill on Non-RPP Avg. Price			\$ 52.45			\$ 33.07	\$ (19.38)	-36.95%
HST	13%		\$ 6.82	13%		\$ 4.30	\$ (2.52)	-36.95%
8% Rebate	8%		\$ (4.20)	8%		\$ (2.65)		
Total Bill on Non-RPP Avg. Price			\$ 55.07			\$ 34.72	\$ (20.35)	-36.95%

D. Tariff Sheet

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2018
This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2017-0048

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to the supply of electrical energy to customers residing in residential dwelling units. Energy is generally supplied as single phase, 3-wire, 60-Hertz, having nominal voltage of 120/240 Volts and up to 400 amps. There shall be only one delivery point to a dwelling. The Basic Connection for Residential consumers is defined as 100 amp 120/240 volt overhead service. A Residential building is supplied at one service voltage per land parcel. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	15.15
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2018) - effective until December 31, 2018	\$	0.26
Rate Rider for Station Refund (2018) - effective until December 31, 2018	\$	-21.60
Distribution Volumetric Rate	\$/kWh	0.0027
Low Voltage Service Rate	\$/kWh	0.0014
Rate Rider for Disposition of Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018	\$/kWh	0.0034
Rate Rider for Calculation for Deferral / Variance Accounts Balances (2018) - effective until December 31, 2018 - Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0082)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2018	\$/kWh	0.0039
Rate Rider for Lost Revenue Adjustment Mechanism Cost (LRAMVA) - effective until December 31, 2018	\$/kWh	-0.0001
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0041

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2018
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EB-2017-0048

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to the supply of electrical energy to a non residential account whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW, and Town Houses and Condominiums that require centralized bulk metering. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	15.47
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0071
Low Voltage Service Rate	\$/kWh	0.0013
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018	\$/kWh	0.0034
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018 - Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0082)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2018	\$/kWh	0.0039
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2018) - effective until December 31, 2018	\$/kWh	0.0003
Rate Rider for Station Refund (2018) - effective until December 31, 2018	\$/kWh	-0.0018
Rate Rider for Lost Revenue Adjustment Mechanism Cost (LRAMVA) - effective until December 31, 2018	\$/kWh	0.0021
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0036

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2018
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EB-2017-0048

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. Note that for the application of the Retail Transmission Rate - Network Service Rate and the Retail Transmission Rate - Line and Transformation Connection Service Rate the following sub-classifications apply:

General Service 50 to 500 kW non-interval metered

General Service 50 to 500 kW interval metered

General Service greater than 500 to 5,000 kW interval metered. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	100.99
Distribution Volumetric Rate	\$/kW	2.1023
Low Voltage Service Rate	\$/kW	0.5184
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018	\$/kW	1.3106
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018 Applicable only for Non-Wholesale Market Participants	\$/kW	(3.1528)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2018	\$/kW	0.0039
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2018) - effective until December 31, 2018	\$/kW	0.1144
Rate Rider for Station Refund (2018) - effective until December 31, 2018	\$/kW	-0.7508
Rate Rider for Lost Revenue Adjustment Mechanism Cost (LRAMVA) - effective until December 31, 2018	\$/kW	-0.1052
Retail Transmission Rate - Network Service Rate	\$/kW	2.7786
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.4736

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2018
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EB-2017-0048

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 the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per customer)	\$	7.12
Distribution Volumetric Rate	\$/kWh	0.0042
Low Voltage Service Rate	\$/kWh	0.0013
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018	\$/kWh	0.0034
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018 Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0082)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2018	\$/kWh	0.0000
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2018) - effective until December 31, 2018	\$/kWh	0.0003
Rate Rider for Station Refund (2018) - effective until December 31, 2018	\$/kWh	-0.0018
Rate Rider for Lost Revenue Adjustment Mechanism Cost (LRAMVA) - effective until December 31, 2018	\$/kWh	-0.0001
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0036

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
Effective and Implementation Date January 1, 2018
This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2017-0048

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to privately owned roadway lighting controlled by photo cells. Consumption is based on calculated connected load times the required lighting hours. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	1.66
Distribution Volumetric Rate	\$/kW	3.8961
Low Voltage Service Rate	\$/kW	0.8183
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018	\$/kW	1.2037
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018 Applicable only for Non-Wholesale Market Participants	\$/kW	(2.8958)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2018	\$/kW	0.0039
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2018) - effective until December 31, 2018	\$/kW	0.1051
Rate Rider for Lost Revenue Adjustment Mechanism Cost (LRAMVA) - effective until December 31, 2018	\$/kW	-0.2210
Rate Rider for Station Refund (2018) - effective until December 31, 2018	\$/kW	-1.1852
Retail Transmission Rate - Network Service Rate	\$/kW	2.0963
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.3260

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
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EB-2017-0048

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to municipal lighting, Ministry of Transportation operation controlled by photo cells. Consumption is as per Ontario Energy Board street lighting load shape. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$/kW	0.59
Distribution Volumetric Rate	\$/kW	6.4020
Low Voltage Service Rate	\$/kW	0.4007
Rate Rider for Calculation for Deferral/Variance Accounts Balances (2018) - effective until December 31, 2018	\$/kW	1.1885
Rate Rider for Calculation for Deferral/Variance Accounts Balances(2018) - effective until December 31, 2018 Applicable only for Non-Wholesale Market Participants	\$/kW	(2.8592)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2018	\$/kW	0.0039
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2018) - effective until December 31, 2018	\$/kW	0.1038
Rate Rider for Lost Revenue Adjustment Mechansim Cost (LRAMVA) - effective until December 31, 2018	\$/kW	-0.5824
Rate Rider for Station Refund (2018) - effective until December 31, 2018	\$/kW	-0.5804
Retail Transmission Rate - Network Service Rate	\$/kW	2.0957
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.1391

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
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EB-2017-0048

microFIT SERVICE CLASSIFICATION

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

APPLICATION

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

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	10.00
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TARIFF OF RATES AND CHARGES
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EB-2017-0048

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 the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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Customer Administration

Arrears certificate	\$	15.00
Statement of account	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	20.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	40.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00

Non-payment of account

Late payment - per month	%	1.50
Late payment - per annum	%	19.56
Collection of account charge - no disconnection	\$	15.00
Disconnect/reconnect at meter - during regular hours	\$	30.00
Disconnect/reconnect at meter - after regular hours	\$	165.00
Disconnect/reconnect at pole - during regular hours	\$	100.00
Disconnect/reconnect at pole - after regular hours	\$	300.00
Install/remove load control device - during regular hours	\$	30.00
Install/remove load control device - after regular hours	\$	165.00

Other

Service call - after regular hours	\$	165.00
Temporary service - install & remove - overhead - no transformer	\$	500.00
Temporary service - install & remove - overhead - with transformer	\$	1,000.00
Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	22.35

Hydro Hawkesbury Inc.
TARIFF OF RATES AND CHARGES
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EB-2017-0048

RETAIL SERVICE CHARGES (if applicable)

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

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

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	100.00
Monthly Fixed Charge, per retailer	\$	20.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.25
Processing fee, per request, applied to the requesting party	\$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0509
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0410

E. Cost of Power Calculations

Transmission - Connection

(volumes for the bridge and test year are automatically loss adjusted)

Customer	Revenue	Expense	2017			2018			
			USA #	USA #	Volume	Rate	Amount	Volume	Rate
Class Name									
Residential	kWh	4068	4716	53,442,779	0.0036	\$191,832	53,024,313	0.0041	\$215,439
General Service < 50 kW	kWh	4068	4716	20,105,119	0.0032	\$63,677	18,793,828	0.0036	\$67,376
General Service > 50 to 4999 kW	kW	4068	4716	188,567	1.3018	\$245,480	221,782	1.4736	\$326,809
Unmetered Scattered Load	kWh	4068	4716	309,434	0.0032	\$980	454,377	0.0036	\$1,629
Sentinel Lighting	kW	4068	4716	265	2.0549	\$545	240	2.3260	\$558
Street Lighting	kW	4068	4716	1,849	1.0063	\$1,860	1,857	1.1391	\$2,115
TOTAL				74,046,164		\$502,513	72,494,540		\$611,811

Wholesale Market Service

(volumes for the bridge and test year are automatically loss adjusted)

Customer	Revenue	Expense	2017			2018			
			USA #	USA #	Volume	rate (\$/kWh):	Amount	Volume	rate (\$/kWh):
Class Name									
Residential	kWh	4062	4708	53,442,779	0.00360	\$192,394	53,024,313	0.00360	\$190,888
General Service < 50 kW	kWh	4062	4708	20,105,119	0.00360	\$72,378	18,793,828	0.00360	\$67,658
General Service > 50 to 4999 kW	kWh	4062	4708	89,781,121	0.00360	\$323,212	89,478,883	0.00360	\$322,124
Unmetered Scattered Load	kWh	4062	4708	309,434	0.00360	\$1,114	454,377	0.00360	\$1,636
Sentinel Lighting	kWh	4062	4708	93,360	0.00360	\$336	88,936	0.00360	\$320
Street Lighting	kWh	4062	4708	678,417	0.00360	\$2,442	679,429	0.00360	\$2,446
TOTAL				163,731,812		\$589,435	161,840,337		\$582,625

Rural Rate Protection

(volumes for the bridge and test year are automatically loss adjusted)

Customer	Revenue	Expense	2017			2018			
			USA #	USA #	Volume	rate (\$/kWh):	Amount	Volume	rate (\$/kWh):
Class Name									
Residential	kWh	4062	4730	53,442,779	0.00130	\$69,476	53,024,313	0.00030	\$15,907
General Service < 50 kW	kWh	4062	4730	20,105,119	0.00130	\$26,137	18,793,828	0.00030	\$5,638
General Service > 50 to 4999 kW	kWh	4062	4730	89,781,121	0.00130	\$116,715	89,478,883	0.00030	\$26,844
Unmetered Scattered Load	kWh	4062	4730	309,434	0.00130	\$402	454,377	0.00030	\$136
Sentinel Lighting	kWh	4062	4730	93,360	0.00130	\$121	88,936	0.00030	\$27
Street Lighting	kWh	4062	4730	678,417	0.00130	\$882	679,429	0.00030	\$204
TOTAL				163,731,812		\$212,851	161,840,337		\$48,552

Smart Meter Entity Charge

(per customer)

Customer	Revenue	Expense	2017			2018			
			USA #	USA #	Volume	rate (\$/kWh):	Amount	Volume	rate (\$/kWh):
Class Name									
Residential	kWh			4,830	0.79000	\$45,788	4,836	0.79000	\$45,845
General Service < 50 kW	kWh			613	0.79000	\$5,814	618	0.79000	\$5,854
General Service > 50 to 4999 kW	kW			88	0.79000	\$833	89	0.79000	\$842
TOTAL				5,531		\$52,435	5,542		\$52,541

Customer	Revenue	Expense	2017			2018		
			USA #	USA #	rate (\$/kWh):	Volume	Amount	rate (\$/kWh):
Class Name	USA #	USA #	Volume		Amount	Volume		Amount
Residential	kWh		53,442,779	0.00000	\$0	53,024,313	0.00000	\$0
TOTAL			53,442,779		\$0	53,024,313		\$0

Low Voltage Charges - Historical and Proposed LV Charges

	2014	2015	2016	2017	2018
4075-Billed - LV	(\$51,804)	(\$51,300)	\$90,976	\$90,976	\$90,976
4750-Charges - LV	\$85,933	\$89,485	\$211,136	\$211,136	\$211,136

Low Voltage Charges - Allocation of LV Charges based on Transmission Connection Revenues

(volumes are not loss adjusted)

ALLOCATION BASED ON TRANSMISSION-CONNECTION REVENUE					
Customer Class Name		RTSR Rate	Not Uplifted Volumes	Revenue	% Alloc
Residential	kWh	\$0.0041	50,454,856	\$204,999	34.16%
General Service < 50 kW	kWh	\$0.0036	17,883,115	\$64,111	10.68%
General Service > 50 to 4999 kW	kW	\$1.4736	221,782	\$326,809	54.46%
Unmetered Scattered Load	kWh	\$0.0036	432,358	\$1,550	0.26%
Sentinel Lighting	kW	\$2.3260	240	\$558	0.09%
Street Lighting	kW	\$1.1391	1,857	\$2,115	0.35%
TOTAL			68,994,209	\$600,142	100.00%

Low Voltage Charges Rate Rider Calculations

(volumes are not loss adjusted)

PROPOSED LOW VOLTAGE CHARGES & RATES							
Customer Class Name	% Allocatio		Charges	Not Uplifted Volumes	Rate	per	
Residential	34.16%		72,121	50,454,856	\$0.0014	kWh	
General Service < 50 kW	10.68%		22,555	17,883,115	\$0.0013	kWh	
General Service > 50 to 4999 kW	54.46%		114,975	221,782	\$0.5184	kW	
Unmetered Scattered Load	0.26%		545	432,358	\$0.0013	kWh	
Sentinel Lighting	0.09%		196	240	\$0.8183	kW	
Street Lighting	0.35%		744	1,857	\$0.4007	kW	
TOTAL	100.00%		211,136	68,994,209			

Low Voltage Charges to be added to power supply expense for bridge and test year.

(volumes are not loss adjusted)

Customer	Revenue	Expense	2017			2018			
			USA #	USA #	Volume	Rate	Amount	Volume	Rate
Class Name	USA #	USA #	Volume	Rate	Amount	Volume	Rate	Amount	
Residential	kWh	4075	4750	50,699,914	\$0.0007	\$35,490	50,454,856	\$0.0014	\$70,637
General Service < 50 kW	kWh	4075	4750	19,073,256	\$0.0006	\$11,444	17,883,115	\$0.0013	\$23,248
General Service > 50 to 4999 kW	kW	4075	4750	188,567	\$0.2419	\$45,614	221,782	\$0.5184	\$114,972
Unmetered Scattered Load	kWh	4075	4750	293,553	\$0.0006	\$176	432,358	\$0.0013	\$562
Sentinel Lighting	kW	4075	4750	265	\$0.3818	\$101	240	\$0.8183	\$196
Street Lighting	kW	4075	4750	1,849	\$0.1870	\$346	1,857	\$0.4007	\$744
TOTAL		0	0	70,257,403		\$93,171	68,994,209		\$210,359

Projected Power Supply Expense					\$21,405,345				\$18,519,668
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SCHEDULE B: PRESENTATION OF SETTLEMENT PROPOSAL

DECISION AND ORDER

HYDRO HAWKESBURY-ELECTRIC SYSTEM CORP.

EB-2017-0048

FEBRUARY 22, 2018

Overview of Hydro Hawkesbury Inc.'s 2018 Cost of Service Application – Settlement Proposal

FILED: FEBRUARY 15, 2018

REVISED: FEBRUARY 20, 2018

Introduction and Timelines

- ▶ Hydro Hawkesbury Inc. ("HHI") filed a Cost of Service application with the Ontario Energy Board (the "OEB") on July 12, 2017.
- ▶ A Community Meeting was held on September 18, 2017
- ▶ On November 21, 2017 HHI filed its responses to interrogatories and the OEB approved the list submitted by OEB staff as the final issues list.
- ▶ The settlement conference was convened on November 22, 2017.
- ▶ Full Settlement was reached.
- ▶ HHI, VECC and SEC participated in the settlement conference (collectively referred to as the "Parties").

Settlement on Rate Base

Particulars	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Gross Fixed Assets (avg.)	\$7,983,667	\$7,983,667	\$0	\$7,973,514	-\$10,153
Accumulated Depreciation (avg.)	-\$923,368	-\$923,368	\$0	-\$923,622	-\$255
Net Fixed Assets (avg.)	\$7,060,300	\$7,060,300	\$0	\$7,049,892	-\$10,408
Allowance for Working Capital	\$1,554,729	\$1,565,231	\$10,503	\$1,478,441	-\$86,790
Total Rate Base	\$8,615,028	\$8,625,531	\$10,503	\$8,528,333	-\$97,198
Controllable Expenses	\$1,210,114	\$1,227,882	\$17,768	\$1,192,882	-\$35,000
Cost of Power	\$19,519,602	\$19,641,868	\$122,266	\$18,519,668	-\$1,122,200
Working Capital Base	\$20,729,716	\$20,869,750	\$140,034	\$19,712,551	-\$1,157,200
Working Capital Rate %	7.50%	7.50%	\$0.00	7.50%	0.00%
Working Capital Allowance	\$1,554,729	\$1,565,231	\$10,503	\$1,478,441	-\$86,790

- ▶ The Parties accepted the rate base calculations, after making the adjustment to, opening balances for 2018, the working capital allowance (OM&A, Cost of Power) as reasonable.

Settlement on Capital Additions

	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Gross Assets					
System Access	\$36,800	\$36,800	\$0.00	\$36,800	\$0
System Renewal	\$117,780	\$117,780	\$0.00	\$117,780	\$0
System Service	\$10,000	\$10,000	\$0.00	\$0	-\$10,000
General Plant	\$11,250	\$11,250	\$0.00	\$11,250	\$0
Total Additions	\$175,830	\$175,830	\$0.00	\$165,830	-\$10,000
Capital Contribution included in System Access	\$0	\$0	\$0.00	-\$10,000	-\$10,000

- ▶ Full Settlement on the following
 - ▶ Updated in service addition forecast for 2017
 - ▶ Revision to include 10K in capital contribution associated with a subdivision.
 - ▶ Inclusion of 3.5M into Rate Base to cover the cost of the 110kV substation.

110KV Substation - Issues and Timelines

- ▶ **Sept 2012:** HHI requests ICM for 2.23M
 - ▶ 44kV = 790K (implemented on schedule and on-budget)
 - ▶ 110kV = 1.5M (delayed)
- ▶ **2012-2014:** Delays in implementing 110kV.
- ▶ **2013 (2014 CoS):** HHI refunds over-collection from 2012 to 2013 in the amount of -\$268,428 to its customers. The Forecast Costs of 1.5M is added to 2014 Rate Base.
- ▶ **2014-2017:** General Electric, hired to commission the substation, notices missing specs and equipment.
- ▶ Further delays in implementing 110kV. (Missing specs / Hydro One switch / Oil containment / detailed study requested by Infrastructure Ontario).
- ▶ **2016:** HHI incurs 1.15M in costs related to the substation.
- ▶ **April 2017:** Substation goes in service.
- ▶ **July 2017:** Cost of Service submitted with Actual costs of 3.5M.
- ▶ **Jan 1, 2018:** HHI refunds over-collection from 2014-2017 to its customers. The refund is in the amount of -\$305,798.

110KV Substation - Refund to customer

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers	Allocated Balance (excluding 1589)	Rate Rider for Deferral/Variance Accounts
RESIDENTIAL	# of Customers	4,836	-\$104,455.81	-\$21.60
GENERAL SERVICE < 50 KW	kWh	17,883,115	-\$32,667.44	-\$0.0018
GENERAL SERVICE > 50 TO 4999 KW	kW	221,782	-\$166,523.25	-\$0.7508
UNMETERED SCATTERED LOAD	kWh	432,358	-\$789.80	-\$0.0018
SENTINEL LIGHTING	kW	240	-\$284.44	-\$1.1852
STREET LIGHTING	kW	1,857	-\$1,077.80	-\$0.5804
Total			-\$305,798.55	

- ▶ The Parties accept HHI's proposal to refund amounts due to a delay in upgrading Hydro Hawkesbury's 110kV transformer station, including the quantum and method of disposition. The rate riders are shown above.
- ▶ The total refund is in the amount of -\$305,798.

Settlement on Operational Costs

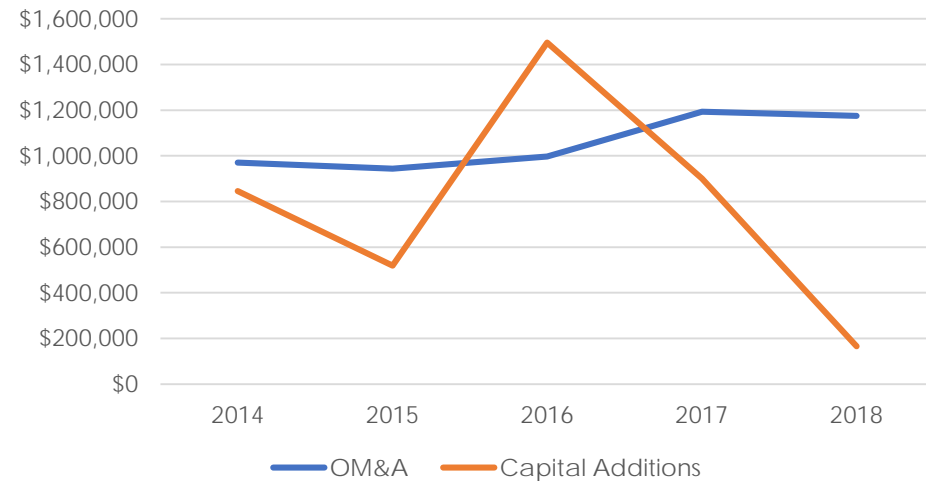
	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Operations	\$95,593	\$95,593	\$0	\$92,648	-\$2,945
Maintenance	\$204,514	\$204,514	\$0	\$198,496	-\$6,018
Billing and Collecting	\$476,632	\$476,632	\$0	\$462,970	-\$13,662
Community Relations	\$0	\$0	\$0	\$0	\$0
Administration & General +LEAP	\$433,375	\$433,375	\$0	\$421,000	-\$12,375
Total	\$1,210,114	\$1,210,114	\$0	\$1,175,114	-\$35,000

- ▶ Subject to an envelope reduction of \$35,000 to the proposed 2018 OM&A budget, the parties agree that the proposed OMA budget is appropriate.

Summary of Capital & OM&A Spending

	Board Approved	2014	2015	2016	2017	2018
OM&A	\$1,126,741	\$970,668	\$944,340	\$996,817	\$1,193,426	\$1,175,114
Capital Spending	\$1,560,990	\$845,104	\$519,213	\$1,496,257	\$899,943	\$165,830
<i>Capital Additions related to the 110kV</i>				\$59,244	\$3,525,000	
<i>Construction in progress related to the 110kV</i>		\$707,031	\$141,544	\$1,153,904	-\$2,807,257	

OM&A VS CapEx



Settlement on Customer and Load Forecast

Particulars	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
Energy (kWh)					
Residential	48,228,553	47,552,180	-676,372	50,454,856	2,902,676
General Service < 50 kW	18,143,532	17,889,082	-254,451	17,883,115	-5,966
General Service > 50 to 4999 kW	81,021,489	79,885,218	-1,136,271	85,142,906	5,257,689
Unmetered Scattered Load	429,307	422,721	-6,586	432,358	9,638
Sentinel Lighting	84,029	82,740	-1,289	84,626	1,886
Street Lighting	641,942	632,094	-9,848	646,505	14,411
Total	148,548,851	146,464,034	-2,084,817	154,644,367	8,180,334
Demand (kW)					
General Service > 50 to 4999 kW	211,046	212,831	1,784	221,782	8,951
Unmetered Scattered Load	0	4	4	0	-4
Sentinel Lighting	238	240	2	240	0
Street Lighting	1,844	1,857	13	1,857	0
Total	213,128	214,932	1,803	223,879	8,947

▶ The Parties agree to:

- ▶ the removal of the CDM weighting factor related to 2015 CDM,
- ▶ For the 2015-2020 CDM Program Table, CHE used the 2016 verified results persisting in 2018 along with annual savings from the CDM plan for 2017 and 2018 assuming a 100% persistence for 2018.
- ▶ A revised allocation of the manual CDM adjustment based on the 2016 verified results and the CDM plan savings for 2017 and 2018.

Settlement on Cost of Capital

Particulars	Application July 12 2017	Application July 12 2017	IR Nov 10 2017	IR Nov 10 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Settlement Proposal Jan 8 2018	Variance over IRs
Debt								
Long-term Debt	3.59%	\$173,259	3.59%	\$169,060	-\$4,198	3.33%	\$159,036	-\$10,024
Short-term Debt	1.76%	\$6,065	1.76%	\$6,072	\$7	2.29%	\$7,812	\$1,740
Total Debt	5.35%	\$179,324	8.78%	\$175,133	-\$4,191	3.67%	\$166,848	-\$8,284
Equity								
Common Equity	9.00%	\$302,560	9.00%	\$302,929	\$369	9.00%	\$307,020	\$4,091
Total Equity	0.00%	\$0	0.00%	\$0	\$0	0.00%	\$0	\$0
	9.00%	\$302,560	9.00%	\$302,929	\$369	9.00%	\$307,020	\$4,091
Total								

- ▶ The Parties agree to HHI's proposed cost of capital parameters as updated to reflect the OEB's deemed cost of capital parameters for the 2018 test year.

Settlement on Revenue Requirement

	Application July 12 2017	IRR Nov 13 2017	Variance over Original Filing	Settlement Proposal Jan 8 2018	Variance over IRs
OM&A Expenses	\$1,210,114	\$1,210,114	\$0	\$1,175,114	-\$35,000
Amortization/Depreciation	\$280,878	\$280,878	\$0	\$281,068	\$190
Property Taxes	\$0	\$17,768	\$17,768	\$17,768	\$0
Income Taxes (Grossed up)	\$9,717	\$9,774	\$57	\$10,538	\$764
Return					
Deemed Interest Expense	\$179,324	\$175,133	-\$4,191	\$166,848	-\$8,284
Return on Deemed Equity	\$302,560	\$302,929	\$369	\$307,020	\$4,091
Service Revenue Requirement	\$1,982,593	\$1,996,596	\$14,003	\$1,958,356	-\$38,239
Revenue Offsets	\$207,894	\$208,216	\$322	\$214,216	\$6,000
Base Revenue Requirement	\$1,774,699	\$1,788,380	\$13,681	\$1,744,140	-\$44,239
Base Revenue Deficiency	\$163,342	\$188,290	\$24,948	\$120,493	-\$67,797

- ▶ OM&A: Envelope cut of 35K
 - ▶ Operation: -\$3k
 - ▶ Maintenance: -\$6k
 - ▶ Billing and Collect: -\$13.7k
 - ▶ Admin: -\$12.3k
- ▶ Adjustment to depreciation expense as a result of using actual in-service addition for 2017.
- ▶ Adjustment to return as a result of new Cost of Capital parameters
- ▶ Overall reduction of Revenue Deficiency of 67.8K

Settlement on Rate Design

Particulars		Application July 12 2017	Application July 12 2017	IRR Nov 3 2017	IRR Nov 3 2017	Settlement Proposal Jan 8 2018	Settlement Proposal Jan 8 2018
Customer Class Name	per	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate	Fixed Rate	Variable Rate
Residential	kWh	\$15.39	\$0.0028	\$15.63	\$0.0029	\$15.15	\$0.0027
General Service < 50 kW	kWh	\$15.47	\$0.0073	\$15.47	\$0.0076	\$15.47	\$0.0071
General Service > 50 to 4999 kW	kW	\$100.99	\$2.2602	\$100.99	\$2.2869	\$100.99	\$2.1023
Unmetered Scattered Load	kWh	\$7.29	\$0.0043	\$7.41	\$0.0044	\$7.12	\$0.0042
Sentinel Lighting	kW	\$1.83	\$3.6222	\$1.77	\$3.9378	\$1.66	\$3.8961
Street Lighting	kW	\$0.67	\$7.2372	\$0.61	\$6.6667	\$0.59	\$6.4020

- ▶ The Parties agree to that the Revenue-to-Cost ratios and Fixed to Variable Split have been correctly determined in accordance with OEB policies and practices. The parties agree that there are two years remaining in HHI's transition to fixed residential rates.

Settlement on Deferral and Variance Balances

Group 1&2 Balances

Total of Group 1 Accounts (1550, 1551, 1584, 1586 and 1595)	\$526,943
Total of Account 1580 and 1588 (not allocated to WMPs)	-\$1,270,007
Balance of Account 1589 Allocated to Non-WMPs	\$304,101

- ▶ The Parties accept the deferral and variance accounts are appropriate.

- ▶ The Parties accept HHI's proposal to dispose of all deferral and variances balances including LRAMVA balances, over a period of one year in order to mitigate the impact rate impacts.

LRAMVA Balances

Description	Residential	General Service <50 kW	General Service 50 - 4999 kW	Street Lighting	Sentinel Lighting	Unmetered Scattered Load	Total
	kWh	kWh	kW	kW	kWh	kW	
2015 Actuals	\$8,411.40	\$20,085.78	\$26.68	\$0.00	\$0.00	\$0.00	\$28,523.87
2015 Forecast	(\$13,962.18)	(\$3,281.89)	(\$11,454.47)	(\$529.58)	(\$25.97)	(\$22.31)	(\$29,276.39)
Amount Cleared							
2016 Actuals	\$11,421.43	\$23,583.05	\$27.24	\$0.00	\$0.00	\$0.00	\$35,031.72
2016 Forecast	(\$10,827.81)	(\$3,336.59)	(\$11,695.00)	(\$540.70)	(\$26.52)	(\$22.89)	(\$26,449.50)
Amount Cleared							
Carrying Charges	(\$86.48)	\$372.93	(\$243.03)	(\$11.26)	(\$0.55)	(\$0.47)	\$31.14
Total LRAMVA Balance	-\$5,044	\$37,423	-\$23,339	-\$1,082	-\$53	-\$46	\$7,861
Rate Rider	-0.0001	0.0021	-0.1052	-0.5824	-0.2210	-0.0001	

Settlement on Other issues

- ▶ The following other issues are agreed to be appropriate and have been correctly determined in accordance with OEB accounting policies and practices.
 - ▶ PILs in the amount of \$10,538
 - ▶ Other Revenues in the amount of \$214,216 adjusted to account for the disposal of 3 unused fully depreciated vehicles. Parties have agreed to amortize the revenue from the sale by including 1/5th or \$6,000 related to the sale in the Test Year Revenue Requirement
 - ▶ Loss Factor of 1.0509 or 5.09%
 - ▶ LRAMVA Baseline of 5,680,929 kWh
 - ▶ RTSR and Low Voltage Rates
 - ▶ HHI commits to carrying out an asset condition assessment to be filed in its next Cost of Service.
 - ▶ HHI commits to filing a detailed contract with its 3rd party contracting firm.

Typical Bill Impacts

RATE CLASSES / CATEGORIES (e.g.: Residential TOU, Residential Retailer)	Units	Sub-Total						Total	
		A=Distribution Charges + LRAMVA		B =Subtotal A+ Deferral and Variance Rate Riders + LV charges + Smart Meter Charges		C= Subtotal B+ Transmission and Connection Charges		Total = C + pass-through chrgs + commodity + HST	
		\$	%	\$	%	\$	%	\$	%
Residential service classification - RPP	750 kWh	-\$21.02	-127.20%	-\$23.24	-114.10%	-\$22.71	-78.60%	-\$24.69	-24.80%
Residential service classification - non-RPP (retailer)	750 kWh	-\$21.02	-127.20%	-\$20.38	-94.80%	-\$20.38	-94.80%	-\$22.24	-19.60%
Residential service classification - RPP	313 kWh	-\$19.92	-139.50%	-\$20.24	-127.30%	-\$20.24	-127.30%	-\$21.60	-47.30%
Residential service classification - non-RPP (retailer)	313 kWh	-\$19.92	-139.50%	-\$19.05	-116.40%	-\$19.05	-116.40%	-\$20.35	-37.00%
General service less than 50 kw service classification - RPP	2000 kWh	-\$2.39	-8.40%	-\$9.73	-25.20%	-\$8.53	-14.40%	-\$11.19	-4.30%
General service 50 to 4,999 kw service classification - non-RPP (retailer)	240 kW	-\$166.92	-28.20%	-\$421.63	-64.80%	-\$358.82	-22.30%	-\$452.50	-8.50%
Unmetered scattered load service classification - non-RPP (retailer)	4600 kWh	-\$6.41	-26.10%	-\$25.51	-46.60%	-\$22.75	-22.30%	-\$31.26	-4.20%
Sentinel lighting service classification - non-RPP (other)	123 kWh	-\$71.73	-13.70%	-\$89.81	-15.70%	-\$89.81	-15.70%	-\$101.68	-15.30%
Street lighting service classification - non-RPP (other)	15,000 kWh	-\$2,104.62	-2.30%	-\$22,344.12	-24.00%	-\$22,344.12	-24.00%	-\$25,272.91	-23.60%

Typical Bill Impacts (without station refund)

RATE CLASSES / CATEGORIES (e.g.: Residential TOU, Residential Retailer)	Units	Sub-Total						Total	
		A=Distribution Charges + LRAMVA		B =Subtotal A+ Deferral and Variance Rate Riders + LV charges + Smart Meter Charges		C= Subtotal B+ Transmission and Connection Charges		Total = C + pass-through chrgs + commodity + HST	
		\$	%	\$	%	\$	%	\$	%
Residential service classification - RPP	750 kWh	\$0.59	3.5%	-\$1.64	-8.0%	-\$1.11	-3.9%	-\$2.01	-2.0%
Residential service classification - non-RPP (retailer)	750 kWh	\$0.59	3.5%	\$1.22	5.7%	\$1.22	5.7%	\$0.44	0.4%
Residential service classification - RPP	313 kWh	\$1.68	11.7%	\$1.36	8.6%	\$1.36	8.6%	\$1.08	2.4%
Residential service classification - non-RPP (retailer)	313 kWh	\$1.68	11.7%	\$2.55	15.6%	\$2.55	15.6%	\$2.33	4.2%
General service less than 50 kw service classification - RPP	2000 kWh	\$1.21	4.3%	-\$6.13	-15.9%	-\$4.93	-8.3%	-\$7.41	-2.8%
General service 50 to 4,999 kw service classification - non-RPP (retailer)	240 kW	\$13.27	2.2%	-\$241.44	-37.1%	-\$178.63	-11.1%	-\$248.88	-4.7%
Unmetered scattered load service classification - non-RPP (retailer)	4600 kWh	\$1.87	7.6%	-\$17.23	-31.5%	-\$14.47	-14.2%	-\$21.90	-2.9%
Sentinel lighting service classification - non-RPP (other)	123 kWh	\$74.05	14.1%	\$55.97	9.8%	\$55.97	9.8%	\$63.06	9.5%
Street lighting service classification - non-RPP (other)	15,000 kWh	\$6,601.38	7.3%	-\$13,638.12	-14.7%	-\$13,638.12	-14.7%	-\$15,435.13	-14.4%

Performance & Scorecards

As filed using 2018 Test Year

	2015	2016	2017	2018
Cost Benchmarking Summary				
Actual Total Cost	1,436,164	1,604,174	1,843,323	1,826,959
Predicted Total Cost	2,837,771	2,821,443	2,939,496	3,060,884
Difference	(1,401,607)	(1,217,269)	(1,096,173)	(1,233,925)
Percentage Difference (Cost Performance)	-68.1%	-56.5%	-46.7%	-51.61%
Three-Year Average Performance			-57.1%	-51.58%
Annual Result	1	1	1	1

Benchmarking and Scorecard results.

- ▶ HHI's efficiency ranking is based on merit. In other words, prudent management of the distribution system and efficiency in managing its operational costs.
- ▶ HHI ranked 1st in the province since 2009 (using 2006 data).
- ▶ The complications with the 110kV station build were specific to the one large project. HHI notes that the 44KV (2012 ICM) was implemented without any issues.
- ▶ HHI notes that even with the added costs of the 110kV station and a return to "normal" OM&A spending in 2017 and 2018, HHI continues to demonstrate excellent benchmarking and scorecard results.
- ▶ HHI's load is entirely supplied by the 2 new substations, with a refurbished substation as backup. HHI does not forecast a need for any further capital projects approaching the scale of the two recent station replacements in the near or mid term planning horizon.