UPDATED OPERATIONS, MAINTENANCE AND ADMINISTRATION SUMMARY

1. INTRODUCTION

This Schedule provides an overview of Hydro Ottawa's total operating expenses, in the contexts of both the 2016-2020 and 2021-2025 rate periods. These expenses include Operations, Maintenance and Administration ("OM&A") expenditures, Property Taxes, Depreciation and Amortization expenses, and Payments in Lieu of Taxes ("PILS"). Detailed information with respect to each of these operating expenses is available in UPDATED Exhibit 4-1-3: Operations, Maintenance and Administration Program Costs, UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis, UPDATED Exhibit 4-3-1: Depreciation, Amortization Disposal, and UPDATED Exhibit: 4-4-1: Payments in Lieu of Taxes.

Please note that throughout this evidence, unless it is explicitly stated otherwise, OM&A is **inclusive** of property taxes.

Table 1 summarizes Hydro Ottawa's total operating expenses for the 2021-2025 period.

Table 1 – AS ORIGINALLY SUBMITTED – 2021-2025 Total Operating Expenses ($'000,000s)

	2021	2022	2023	2024	2025
OM&A excluding Property Tax	$90.8	$93.1	$95.4	$97.8	$100.2
Property Tax	$3.1	$3.2	$3.3	$3.4	$3.5
OM&A including Property Tax	$93.9	$96.3	$98.7	$101.2	$103.7
Depreciation	$52.5	$56.9	$59.1	$60.7	$64.0
PILS	$1.0	$5.2	$8.8	$11.8	$7.8
TOTAL[1]	**$147.5**	**$158.4**	**$166.6**	**$173.7**	**$175.5**

Table 1 – UPDATED FOR 2019 ACTUALS – 2021-2025 Total Operating Expenses ($'000,000s)

	2021	2022	2023	2024	2025
OM&A excluding Property Tax	$90.8	$93.1	$95.4	$97.8	$100.2
Property Tax	$3.1	$3.2	$3.3	$3.4	$3.5
OM&A including Property Tax	$93.9	$96.3	$98.7	$101.2	$103.7
Depreciation	$52.5	$56.9	$59.1	$60.7	$64.0
PILS	$2.2	$3.9	$8.6	$11.5	$7.6
TOTAL[2]	**$148.6**	**$157.1**	**$166.4**	**$173.4**	**$175.3**

2. OM&A SUMMARY

2.1 OVERVIEW

Hydro Ottawa's forecasted OM&A expenses include costs that are incurred to continue providing a safe and reliable electricity distribution system, meeting legislative and regulatory compliance requirements, and satisfying other operational and maintenance needs.

During the 2016-2020 period, Hydro Ottawa completed key OM&A-related projects and programs, such as operating and maintaining overhead and underground distribution lines, feeders, transformers, and distribution stations. The utility also incurred operations and

[1] Totals may not sum due to rounding.
[2] Totals may not sum due to rounding.

maintenance costs for programs designed to invest in proactive measures to avoid long-term OM&A and capital costs. Examples of such programs include vegetation management and asset maintenance.

Key projects and programs in the 2021-2025 period include distribution maintenance and operations programs, such as vegetation management, underground locates, information technology ("IT") maintenance, contact centre and billing activities, stations maintenance, and meter operations and testing activities.

Figure 1 below summarizes Hydro Ottawa's OM&A expenses over both rate periods (2016-2020 is displayed in blue; 2021-2025, in orange).

Figure 1 – AS ORIGINALLY SUBMITTED – 2016-2025 OM&A Expenses ($'000,000s)

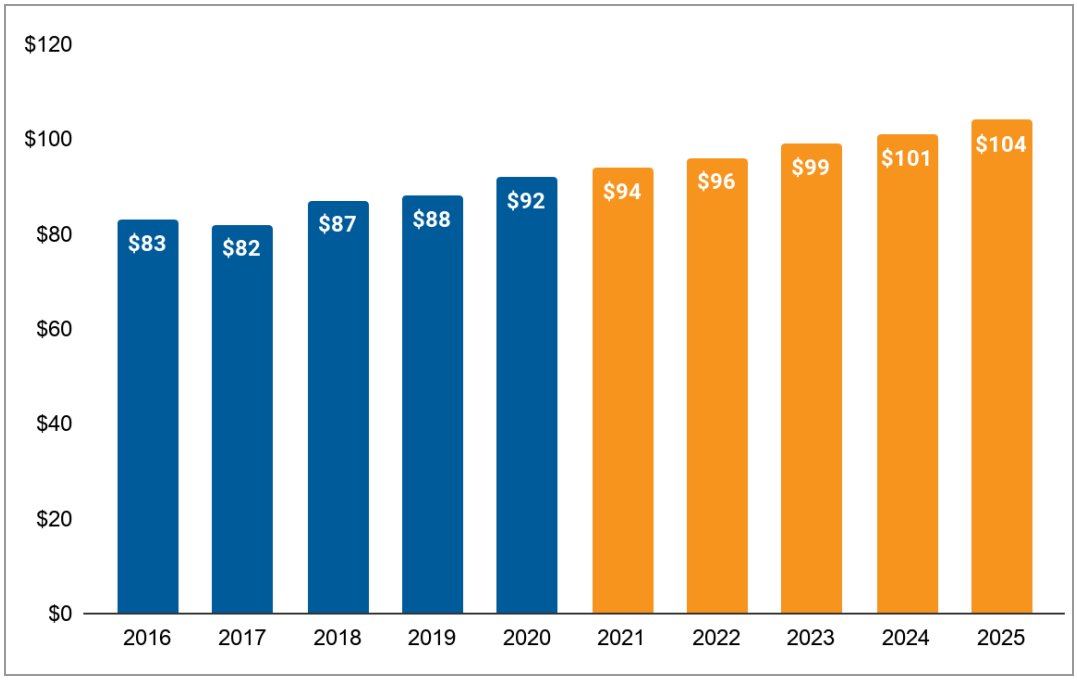
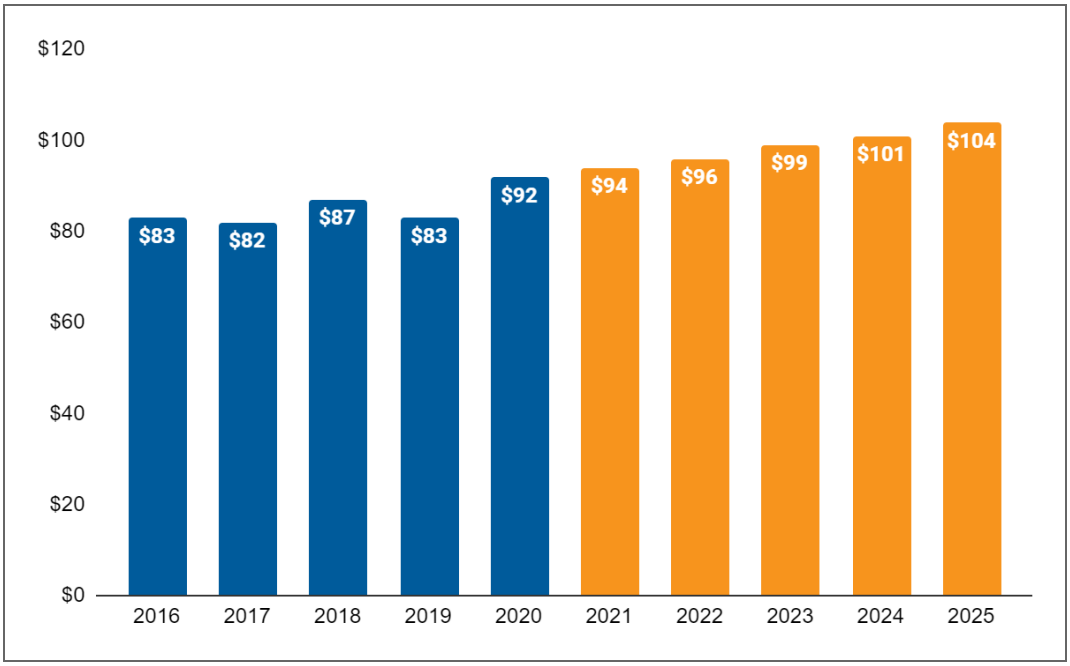


Figure 1 – UPDATED FOR 2019 ACTUALS – 2016-2025 OM&A Expenses ($'000,000s)



2.2 OM&A COST DRIVERS

Key cost drivers for OM&A are as follows:

Proactive and Reactive Distribution System Maintenance

This includes power outage restoration work due to storms, vegetation management (e.g. tree trimming for purposes of storm hardening), underground cable locates, distribution system inspections, and clean-up of sites contaminated by leaks/spills.

Employees, Equipment, and Facilities

Hydro Ottawa relies upon a skilled and experienced workforce that is equipped with the tools necessary to perform its work safely and efficiently. Ongoing employee training is required as the workforce is renewed due to retirements. This ensures that employees continue to work safely and keep pace with the new skill sets associated with a more sophisticated distribution system and evolving business landscape.

IT & Operational Technology Systems and Communications

Many of the utility's IT and operational technology systems require ongoing support, maintenance, and protection, including for purposes of cyber security. Examples of such systems include the Supervisory Control and Data Acquisition System, Geographic Information System, Customer Care and Billing System, Outage Management System, Enterprise Resource Planning ("ERP") system, and Human Capital Management ("HCM") system. The needs and costs associated with software licensing are also increasing.

For additional details on OM&A cost drivers, please see UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis.

2.3 PRODUCTIVITY INITIATIVES & SAVINGS

Some of the key productivity improvements undertaken by Hydro Ottawa during its 2016-2020 rate term include the launch of an upgraded ERP system and new HCM system, migration to a

new customer contact centre service provider, and implementation of a Mobile Workforce Management tool. Further details on these and other such initiatives are provided in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives.

With respect to Hydro Ottawa staffing levels (as submitted in the utility's original Application), these are set to decrease in 2021 from 2019 levels (see Attachment 4-1-5(C): OEB Appendix 2-K - Employee Costs). After accounting for 2019 actuals, Hydro Ottawa staffing levels are set to increase in 2021 from 2019 levels (see UPDATED Attachment 4-1-5(C): OEB Appendix 2-K - Employee Costs). Ongoing and expected productivity improvements mean that the utility will be able to accomplish more while ensuring overall headcount remains stable and associated compensation costs are controlled. In addition, it should likewise be noted that Hydro Ottawa is currently serving more customers than it was in 2015, with the customer base having increased by almost 5%, as of the end of 2019.[3]

During the internal budgeting process at Hydro Ottawa for the 2021-2025 period, the initial levels of OM&A expenditures proposed by the various Divisions within the utility translated into an overall OM&A Compound Annual Growth Rate ("CAGR") of 3.5%.[4] This growth was attributable to increases in program activities, salaries and benefit costs, fuel costs, and market priced contracts.

The proposed 2021-2025 OM&A spending levels were reviewed by the Executive Management Team and several adjustments/reductions were made to the proposals. One significant modification was that inflationary adjustments were not applied to programs where inflationary growth was not already explicitly included (e.g. wages set through the collective bargaining process). As a result, Hydro Ottawa will manage these programs and their associated costs to 2020 cost levels.

[3] As of the end of 2015, Hydro Ottawa's total customer count was 323,919. This number increased to 339,771 as of the end of 2019. The addition of 15,852 customers during that timeframe is equivalent to approximately a 5% increase.

[4] Details on the parameters that governed the internal budgeting process at Hydro Ottawa can be found in Attachment 1-1-9(A): Corporate Memorandum - 2020-2025 Priorities and Budget Guidelines.

In addition, Hydro Ottawa applied a custom OM&A productivity escalator to its planned 2021 OM&A levels. The custom escalator applied was 2.51%.[5] The application of this custom escalation factor resulted in a reduction to OM&A spending over the 2021-2025 rate term of approximately $13.1M. These savings will be achieved in large part through productivity and continuous improvement initiatives, as described in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives. Hydro Ottawa is committed to productivity and continuous improvement, and is confident that it has proposed a reasonable target for OM&A productivity.

3. PROPERTY TAXES

Property taxes are paid to the City of Ottawa annually based on the value of its buildings and substations and the associated municipal tax rates. For more information, please see UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis.

4. DEPRECIATION AND AMORTIZATION EXPENSES

For more information regarding Hydro Ottawa's Depreciation and Amortization expenses, please refer to UPDATED Exhibit 4-3-1: Depreciation, Amortization Disposal.

5. PAYMENTS IN LIEU OF TAXES

Pursuant to its obligations under Section 93 of the *Electricity Act, 1998*, Hydro Ottawa is liable for the payment of PILS to the Ministry of Finance based on its taxable income. For more information regarding PILS, please see UPDATED Exhibit 4-4-1: Payments in Lieu of Taxes.

[5] For more information on this productivity escalator and how it was calculated, please see Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.

UPDATED OPERATIONS, MAINTENANCE AND ADMINISTRATION PROGRAM COSTS

1. INTRODUCTION

This Schedule provides a brief qualitative and quantitative summary of Hydro Ottawa's operations, maintenance and administration ("OM&A") expenditures. It also includes a brief overview of the composition of Hydro Ottawa's OM&A costs, trends, and business environment changes. This Schedule further describes Hydro Ottawa's approach to OM&A planning, and the top-down and bottom-up budget process used to arrive at the utility's OM&A expenditures. The inclusion of information in this Schedule is informed by the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements").

2. OM&A SUMMARY

2.1. HYDRO OTTAWA'S APPROACH TO OM&A PLANNING AND BUDGETING

Hydro Ottawa's approach to OM&A planning and budgeting for the 2021-2025 period is guided by the utility's planning and performance management framework, which aligns corporate strategies with planning, operations, performance, and the drive for continuous improvement.

Figure 1 – Hydro Ottawa's Integrated Planning & Performance Management Framework



The framework maintains that spending correspond to business priorities, be directed to achieve performance targets, and support Hydro Ottawa's four key focus areas, as set out in its *2016-2020 Strategic Direction*:

- **Customer Value:** we will deliver value across the entire customer experience by providing reliable, responsive and innovative services at competitive rates.

- **Financial Strength:** we will create sustainable growth in our business and our earnings by improving productivity and pursuing business growth opportunities that leverage our strengths – our core capabilities, our assets and our people.

- **Organizational Effectiveness:** we will achieve performance excellence by cultivating a culture of innovation and continuous improvement.

- **Corporate Citizenship:** we will contribute to the well-being of the community by acting at all times as a responsible and engaged corporate citizen.

Hydro Ottawa's 2021 OM&A budget was developed as a Test Year rebasing budget and is based on the utility's forecast of expenditures, as developed in its budget process. It was guided by the objectives and constraints articulated in a 2020-2025 budget planning memorandum issued by the utility's Chief Financial Officer to members of the Executive Management Team.[1] Among other things, this memorandum included constraints on headcount, compensation, and OM&A. Hydro Ottawa's 2021 OM&A budget was further informed by substantive operational investments needed to maintain service reliability and safety, as well as those necessary to remain in compliance with regulatory and legislative requirements. Finally, the OM&A budget was informed by the need to maximize productivity and minimize bill impacts, while ensuring the financial health and viability of the utility.

For the 2022-2025 Test Years, Hydro Ottawa will adjust OM&A using a Custom Price Escalation Factor ("CPEF") to align with the principles of incentive regulation, as enshrined in the Renewed Regulatory Framework ("RRF"). Detailed information on the specific configuration of the CPEF is outlined in UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework. Hydro Ottawa's approach to adjusting the OM&A component of rates by the CPEF formula will result in the utility bearing the risk associated with any shortfall between revenues collected through rates and regularly incurred costs. This difference will be recovered through productivity initiatives and operational efficiencies. Further details regarding planned initiatives for the 2021-2025 period are discussed in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives.

2.2. OM&A BUDGET PROCESS

Hydro Ottawa undertook both a top-down and bottom-up forecasting exercise to develop the 2021-2025 budget. The budget forecasting exercise began with the preparation and issuance of a planning memorandum from the Chief Financial Officer (see section 2.1 above) that provided top-down guidance on the areas of constraints which were to inform the individual corporate Divisions in the bottom-up development of their budgets. Examples of top-down constraints and

[1] Please see Attachment 1-1-9(A): Corporate Memorandum - 2020-2025 Priorities and Budget Guidelines.

expectations included constraints on hiring, compensation, and benefits, as well as expectations for productivity and cost control activity. Bottom-up funding requests were then developed, evaluated, and scrutinized based on priority and alignment with core strategic objectives as well as ratepayer impacts. Adjustments were subsequently made to the OM&A budget to reflect these priorities and impacts. The final OM&A budget was developed to accommodate Hydro Ottawa's operational requirements to provide a safe and reliable distribution system, while respecting legislative and regulatory obligations, including the conditions set forth in the utility's OEB-approved license. The OM&A budget was included in the assessment of customer rate impacts that were reviewed by Hydro Ottawa's senior management team and Board of Directors.

As noted above, the OM&A budget for the 2022-2025 Test Years was subsequently adjusted by a CPEF formula, consistent with the OEB's model for incentive regulation. Recognizing that Hydro Ottawa cannot accurately predict all potential OM&A funding requirements that may emerge during the 2021-2025 Custom Incentive Rate- term, the utility may avail itself of the cost recovery mechanism available under a Z factor application. Hydro Ottawa will only resort to using the Z factor mechanism if costs incurred arise from unforeseen events, decisions, or activities, the results of which cannot be reasonably anticipated or quantified at this juncture and where the costs exceed Hydro Ottawa's materiality threshold and satisfy OEB criteria. Examples include unforeseen weather events or changes to laws or regulations requiring significant implementation investment.[2]

2.3. OM&A TEST YEAR LEVELS

As established by the RRF, under a Price Cap IR rates are adjusted using a formulaic approach in the years following the first year base rates. This formula consists of a two component Price Cap Index ("PCI"): inflation and productivity. For electricity distributors, the formula includes an industry-specific inflation factor and two factors for productivity. One productivity factor is a fixed amount for industry-wide productivity, and the other is a stretch factor which is set each year

[2] Additional information on Hydro Ottawa's intended approach to Z factor applications is available in Exhibit 9-2-1: New Deferral and Variance Accounts.

based on the level of productivity the distributor has achieved as evaluated by the Pacific Economics Group ("PEG") econometric model.

Under a Custom Incentive Rate-Setting ("Custom IR") approach, the annual rate adjustment must be based on a custom index supported by empirical evidence that can be tested. The annual adjustment must include explicit financial incentives for continuous improvement and cost control targets. As noted in the OEB's *Handbook for Utility Rate Applications*, "these incentive elements, including a productivity factor, must be incorporated through a custom index or an explicit revenue reduction over the term of the plan (not built into the cost forecast)."[3]

As a result, Hydro Ottawa is proposing to adopt a CPEF rate framework for years two through five, which is based on the approach approved by the OEB in Hydro Ottawa's 2016-2020 Custom IR application.[4] This framework is aligned with OEB policy and based on sound ratemaking principles. The CPEF incorporates the OEB's key principles and expectations of a Custom IR application, and is structured in a way that:

- Includes productivity gains as part of the rate adjustment mechanism;
- Constrains operational funding increases going forward at approximately the rate of inflation; and
- Acknowledges the necessary funding requirements to address Hydro Ottawa's significant, multi-year investment needs over the 2021-2025 period.

The proposed OM&A costs for the Test Years were developed by escalating the 2021 Test Year OM&A levels by a CPEF of 2.51% in the years 2022 through 2025. For more information on how this escalation factor was developed, please see UPDATED Exhibit 1-1-10: Alignment with the Renewed Regulatory Framework.

[3] Ontario Energy Board, *Handbook for Utility Rate Applications* (October 13, 2016), page 25.
[4] Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).

2.4. SUMMARY OF TOTAL OM&A EXPENDITURES

Hydro Ottawa's OM&A costs are significantly influenced by requirements to operate and maintain a safe and reliable distribution grid, provide service levels that are satisfactory to customers, and ensure continued compliance with all legislative and regulatory obligations. Among other things, this entails a need for the utility to strategically manage its workforce in a way that allows it to replace retiring workers with new tradespeople, and respond to the changing dynamics of the market and operating environment in which it is tasked with the distribution of electricity to customers.

Table 1 below provides a summary view of Hydro Ottawa's Historical, Bridge, and Test Year OM&A expenditures and has been updated to incorporate 2019 actual results.

Table 1 – AS ORIGINALLY SUBMITTED – OM&A Variances ($'000s)

	Year	OM&A	Previous Year	Variance	Variance
Historical	2016	$82,621			
	2017	$82,245	$82,621	$(376)	(0.46)%
	2018	$86,863	$82,245	$4,619	5.62%
Bridge	2019	$87,545	$86,863	$682	0.79%
	2020	$91,990	$87,545	$4,445	5.08%
Test	2021	$93,923	$91,990	$1,932	2.10%
	2022	$96,280	$93,923	$2,357	2.51%
	2023	$98,697	$96,280	$2,417	2.51%
	2024	$101,174	$98,697	$2,477	2.51%
	2025	$103,714	$101,174	$2,539	2.51%

Table 1 – UPDATED FOR 2019 ACTUALS – OM&A Variances ($'000s)

	Year	OM&A	Previous Year	Variance	Variance
Historical	2016	$82,621			
	2017	$82,245	$82,621	$(376)	(0.46)%
	2018	$86,863	$82,245	$4,619	5.62%
	2019	$83,113	$86,863	($3,750)	(4.32%)
Bridge	2020	$91,990	$83,113	$8,878	10.68%
Test	2021	$93,923	$91,990	$1,932	2.10%
	2022	$96,280	$93,923	$2,357	2.51%
	2023	$98,697	$96,280	$2,417	2.51%
	2024	$101,174	$98,697	$2,477	2.51%
	2025	$103,714	$101,174	$2,539	2.51%

With respect to OM&A expenditures in 2019, total expenditures were lower than forecasted by $4.4M and were below 2018 levels by $3.8M. The 2019 actual to 2019 forecast variance is explained by the following:

1) Compensation was below forecast by $2.5M due to reduced overtime, higher than anticipated position vacancies, and a variance in the WSIB Surcharge account (for which a rebate was received in 2019 due to improvement in claim status year-over-year).
2) Shared services provided by Hydro Ottawa Holding Inc. ("Holding Company") fell $0.8M below the forecast. This decrease is largely explained by the utility's reduced share of the Holding Company's services, in the midst of continued expansion of the business activity of the utility's affiliates.
3) The remaining $1.1M reduction was achieved by cost control and cost deferral. For example, an effort was made by the utility to mitigate cost increases in spills cleanup and overlapping ownership of facilities. In addition, the timing and pacing of OM&A expenditures resulted in cost deferral in certain instances. This was the case with select OM&A programs, for which the initiation of activities occurred later than the forecasted schedule as a result of contract renewal negotiations. Instead of 2019, some of these costs are expected to be incurred in 2020.

2.5. SUMMARY OF OM&A COSTS BY MAJOR CATEGORY

UPDATED Attachment 4-1-3(A): OEB Appendix 2-JA - Summary of Recoverable OM&A Expenses provides a summary of recoverable OM&A expenses, as outlined below in Table 2. In addition, please see UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis for a description of high-level cost drivers and cost drivers by program.

Table 2 – AS ORIGINALLY SUBMITTED – OM&A Costs by Major OM&A Category ($'000s)

OM&A Category	Actual			Bridge		Test	CAGR[5]
	2016	2017	2018	2019	2020	2021	
Operations	$18,399	$18,860	$20,877	$22,398	$23,824	$22,924	4.5%
Maintenance	$9,739	$10,299	$9,125	$8,653	$9,767	$9,855	0.2%
Subtotal	$28,138	$29,158	$30,003	$31,050	$33,591	$32,779	3.1%
Billing and Collecting	$12,594	$12,745	$11,941	$10,220	$12,052	$12,711	0.2%
Community Relations	$5,290	$5,120	$4,759	$5,131	$5,895	$6,365	3.8%
Subtotal	$17,884	$17,865	$16,700	$15.352	$17,946	$19,076	1.3%
Administrative and General	$36,599	$35,222	$40,161	$41,143	$40,453	$42,068	2.8%
Total OM&A Expenses[6][7]	**$82,621**	**$82,245**	**$86,863**	**$87,545**	**$91,990**	**$93,923**	**2.6%**

Table 2 – UPDATED FOR 2019 ACTUALS – OM&A Costs by Major OM&A Category ($'000s)

OM&A Category	Actual				Bridge	Test	CAGR[8]
	2016	2017	2018	2019	2020	2021	
Operations	$18,399	$18,860	$20,877	$20,863	$23,824	$22,924	4.5%
Maintenance	$9,739	$10,299	$9,125	$7,693	$9,767	$9,855	0.2%
Subtotal	$28,138	$29,158	$30,003	$28,556	$33,591	$32,779	3.1%
Billing and Collecting	$12,594	$12,745	$11,941	$10,873	$12,052	$12,711	0.2%
Community Relations	$5,290	$5,120	$4,759	$4,796	$5,895	$6,365	3.8%
Subtotal	$17,884	$17,865	$16,700	$15,670	$17,946	$19,076	1.3%
Administrative and General	$36,599	$35,222	$40,161	$38,887	$40,453	$42,068	2.8%
Total OM&A Expenses[9][10]	**$82,621**	**$82,245**	**$86,863**	**$83,113**	**$91,990**	**$93,923**	**2.6%**

[5] CAGR represents the compound annual growth rate between 2016 and 2021.
[6] Totals may not sum due to rounding.
[7] In the 2019 forecast included in the original Application, $3.7M in OM&A costs were reclassified to USofA Account 4330, in relation to Shared Services (please see Appendix 2-N).
[8] CAGR represents the compound annual growth rate between 2016 and 2021.
[9] Totals may not sum due to rounding.
[10] In 2019, $3.2M in OM&A costs were reclassified to USofA Account 4330, in relation to Shared Services. Please see UPDATED Attachment 3-2-1(B): OEB Appendix 2-N - 2016-2020 Shared Services and Corporate Cost Allocation.

Over the period of 2016-2021, overall OM&A expenses are set to experience a 2.6% increase (using a compound annual growth rate). This is attributable to Hydro Ottawa's strong commitment to productivity, continuous improvement, and cost control. The overall increase is largely explained by increases in labour costs, as per Collective Agreements, as well as the increased demand in distribution maintenance and technology. These increases are partially offset by savings associated with productivity initiatives and cost control.

2.5.1. Operations and Maintenance Costs

Operations and maintenance are expected to increase by a compound annual growth rate of 3.1% over the course of 2016-2021. The increase to operations and maintenance-related costs is partly attributable to increased costs associated with labour, and maintenance expenses associated with operating and maintaining overhead and underground distribution lines, feeders, transformers, and distribution stations. The principal cost drivers of the increases are as follows:

- Higher volume of Preventative and Predictive Overhead, Underground Line, and Station Maintenance costs;
- Increase in Corrective Maintenance and Emergency Response costs;
- Increase in System Operations costs;
- Technology costs, such as Supervisory Control and Data Acquisition ("SCADA"), Geographic Information System ("GIS"), and Asset Management software; and
- Increased labour and fleet costs.

The foregoing cost increases are mitigated by savings achieved through several productivity initiatives, the largest one being a dark fibre lease. Once this lease is completely terminated in 2022, annual OM&A savings of $1.1M are expected to accrue. The construction of Hydro Ottawa's own dark fibre network is moving forward as part of the Telecom Master Plan included in the utility's approved 2016-2020 Custom IR application. Construction of dark fibre is set to strengthen overall grid reliability, while simultaneously reducing OM&A costs.

2.5.2. Billing and Collections & Community Relations

Billing, Collections, and Community Relations costs increased by a compound annual growth rate of 1.3% from 2016 through 2021. Billing and collections expenses relate to costs associated with enabling customer billing services, conducting collections activities, and maintaining the billing system (including for purposes of satisfying new regulatory requirements). The principal cost drivers of the increases are the following:

- Increase in postage rates;
- Increase in technology costs to ensure Hydro Ottawa's Customer Care & Billing system is complying with all new regulatory requirements (e.g. amendments to the OEB's Customer Service Rules and annual Disconnection Moratoriums); and
- Increase in technology costs to enhance customer experience. For example, customers are now communicating with Hydro Ottawa through numerous channels including voice, text, email, and web chat.[11]

The foregoing cost increases were successfully offset by many cost control initiatives, including e-billing and automation. Hydro Ottawa maintains the highest e-billing participation rate of any distributor in Ontario (48% of customers), with an estimated corresponding cost avoidance of $1.6M per year.

2.5.3. Administrative and General

From 2016 to 2021, Administrative and General costs increased by a compound annual growth rate of 2.8%. Administrative costs generally reflect salary expenses, as well as costs associated with Human Resources ("HR"), Information Technology ("IT"), Finance, Regulatory, Facilities, Supply Chain, Warehouse, Legal, Communications, and Occupational Health, Safety and Environment. The principal cost drivers of the increases are as follows:

- Compensation and benefits costs;

[11] For further information on Hydro Ottawa's enhanced customer communications and resulting increases in customer satisfaction, please see Attachment 1-2-1(B): Customer Strategy.

- Higher demand for technological support (e.g. IT security, IT subscription, and system support) to meet higher customer expectations and diverse business and operational needs; and
- Higher customer demand for communications from and with Hydro Ottawa, especially during outages and severe weather events.

2.6. INFLATION RATES AND FINANCIAL ASSUMPTIONS

Hydro Ottawa has assumed an inflation rate of 2.01% for 2021, for all non-compensation related costs.[12]

2.7. OVERVIEW OF OM&A PROGRAMS & EXPENDITURES

A full quantitative description and variance of Hydro Ottawa's program costs is available in UPDATED Attachment 4-1-3(B): OEB Appendix 2-JC - OM&A Programs Table. A qualitative description of the utility's OM&A programs and an analysis of cost drivers can be found in UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis.

3. OM&A COST PER CUSTOMER AND PER FTE

UPDATED Attachment 4-1-3(C): OEB Appendix 2-L - Recoverable OM&A Cost per Customer and per Full Time Equivalent summarizes Hydro Ottawa's OM&A expenditures over the Historical, Bridge, and 2021 Test Years, expressed on a per customer and per Full Time Equivalent ("FTE") employee basis. The compounded growth rate in OM&A costs per customer is 1.4% and per FTE is 2.3% over the 2016-2021 period.

[12] Conference Board of Canada, *Consumer Price Index - Canada* (October 2019).

TO BE UPDATED AT THE DRAFT RATE ORDER STAGE

UPDATED - Appendix 2-JA

Summary of Recoverable OM&A Expenses

		2016	2017	2018	2019	2020	2021
	2016 Last Rebasing Year OEB Approved	2016 Last Rebasing Year Actuals	2017 Actuals	2018 Actuals	2019 Actuals	2020 Bridge Year	2021 Test Year
Reporting Basis	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Operations		$ 18,398,554	$ 18,859,756	$ 20,877,170	$ 20,863,261	$ 23,824,185	$ 22,923,625
Maintenance		$ 9,739,324	$ 10,298,658	$ 9,125,316	$ 7,692,891	$ 9,766,516	$ 9,855,230
SubTotal	**$ -**	**$ 28,137,878**	**$ 29,158,414**	**$ 30,002,486**	**$ 28,556,152**	**$ 33,590,701**	**$ 32,778,855**
%Change (year over year)			3.6%	2.9%	-4.8%	17.6%	-2.4%
%Change (Test Year vs Last Rebasing Year - Actual)							
Billing and Collecting		$ 12,593,747	$ 12,744,913	$ 11,940,913	$ 10,873,479	$ 12,051,515	$ 12,711,160
Community Relations		$ 5,290,093	$ 5,119,660	$ 4,758,993	$ 4,796,400	$ 5,894,923	$ 6,365,075
Administrative and General		$ 36,599,477	$ 35,221,846	$ 40,160,945	$ 38,886,829	$ 40,453,281	$ 42,067,566
SubTotal	**$ -**	**$ 54,483,317**	**$ 53,086,419**	**$ 56,860,851**	**$ 54,556,708**	**$ 58,399,719**	**$ 61,143,801**
%Change (year over year)			-2.6%	7.1%	-4.1%	7.0%	4.7%
%Change (Test Year vs Last Rebasing Year - Actual)							
Total	**$ 83,105,563**	**$ 82,621,195**	**$ 82,244,833**	**$ 86,863,337**	**$ 83,112,860**	**$ 91,990,420**	**$ 93,922,656**
%Change (year over year)			-0.5%	5.6%	-4.3%	10.7%	2.1%

Note:

1 Historical actuals going back to the last cost of service application are required to be entered by the applicant.

2 Recoverable OM&A that is included on these tables should be identical to the recoverable OM&A that is shown for the corresponding periods on Appendix 2-JB.

	2016			2017	2018	2019	2020		2021	
	Last Rebasing Year 2016 OEB Approved	Last Rebasing Year 2016 Actuals	Variance 2016 OEB Approved - 2016 Actuals	2017 Actuals	2018 Actuals	2019 Actuals	2020 Bridge Year	Variance 2020 Bridge vs. 2019 Actuals	2021 Test Year	Variance 2021 Test vs. 2020 Bridge
Operations		**$ 18,398,554**	**-$ 18,398,554**	**$ 18,859,756**	**$ 20,877,170**	**$ 20,863,261**	**$ 23,824,185**	**$ 2,960,924**	**$ 22,923,625**	**-$ 900,560**
Maintenance		**$ 9,739,324**	**-$ 9,739,324**	**$ 10,298,658**	**$ 9,125,316**	**$ 7,692,891**	**$ 9,766,516**	**$ 2,073,625**	**$ 9,855,230**	**$ 88,714**
Billing and Collecting		**$ 12,593,747**	**-$ 12,593,747**	**$ 12,744,913**	**$ 11,940,913**	**$ 10,873,479**	**$ 12,051,515**	**$ 1,178,036**	**$ 12,711,160**	**$ 659,645**
Community Relations		**$ 5,290,093**	**-$ 5,290,093**	**$ 5,119,660**	**$ 4,758,993**	**$ 4,796,400**	**$ 5,894,923**	**$ 1,098,523**	**$ 6,365,075**	**$ 470,152**
Administrative and General		**$ 36,599,477**	**-$ 36,599,477**	**$ 35,221,846**	**$ 40,160,945**	**$ 38,886,829**	**$ 40,453,281**	**$ 1,566,452**	**$ 42,067,566**	**$ 1,614,285**
Total OM&A Expenses	**$ 83,105,563**	**$ 82,621,195**	**$ 484,368**	**$ 82,244,833**	**$ 86,863,337**	**$ 83,112,860**	**$ 91,990,420**	**$ 8,877,560**	**$ 93,922,656**	**$ 1,932,236**
Adjustments for Total non-recoverable items (from Appendices 2-JA and 2-JB)										
Total Recoverable OM&A Expenses	**$ 83,105,563**	**$ 82,621,195**	**$ 484,368**	**$ 82,244,833**	**$ 86,863,337**	**$ 83,112,860**	**$ 91,990,420**	**$ 8,877,560**	**$ 93,922,656**	**$ 1,932,236**
Variance from previous year				-$ 376,362	$ 4,618,504	-$ 3,750,477	$ 8,877,560		$ 1,932,236	
Percent change (year over year)				0.0%	5.6%	-4.3%	10.7%		2.1%	
Percent Change: Test year vs. Most Current Actual									13.01%	
Simple average of % variance for all years									3.52%	
Compound Annual Growth Rate for all years										2.6%
Compound Growth Rate (2019 vs. 2016 Actuals)									0.2%	

	2016 Last Rebasing Year OEB Approved	**2016 Last Rebasing Year Actuals**		**2018 Actuals**	**2019 Actuals**	**2020 Bridge Year**	**2021 Test Year**
Operations		$ 18,398,554		$ 20,877,170	$ 20,863,261	$ 23,824,185	$ 22,923,625
Maintenance		$ 9,739,324		$ 9,125,316	$ 7,692,891	$ 9,766,516	$ 9,855,230
Billing and Collecting		$ 12,593,747		$ 11,940,913	$ 10,873,479	$ 12,051,515	$ 12,711,160
Community Relations		$ 5,290,093		$ 4,758,993	$ 4,796,400	$ 5,894,923	$ 6,365,075
Administrative and General		$ 36,599,477		$ 40,160,945	$ 38,886,829	$ 40,453,281	$ 42,067,566
Total	**$ 83,105,563**	**$ 82,621,195**		**$ 86,863,337**	**$ 83,112,860**	**$ 91,990,420**	**$ 93,922,656**
%Change (year over year)		-0.6%		5.1%	-4.3%	10.7%	2.1%

UPDATED - Appendix 2-JC
OM&A Programs Table

Programs	Last Rebasing Year (2016 OEB-Approved)	Last Rebasing Year (2016 Actuals)	2017 Actuals	2018 Actuals	2019 Actuals	2020 Bridge Year	2021 Test Year	Variance (Test Year vs. 2019 Bridge Year)	Variance (Test Year vs. Last Rebasing Year (2016
Reporting Basis		MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Distribution Operations									
		17,754,301	18,885,205	19,311,623	18,154,464	20,382,354	21,457,611	3,303,147	21,457,611
Sub-Total	0	17,754,301	18,885,205	19,311,623	18,154,464	20,382,354	21,457,611	3,303,147	21,457,611
Engineering & Design									
		6,872,207	6,878,698	7,540,783	6,859,518	8,745,847	8,565,907	1,706,389	8,565,907
Sub-Total	0	6,872,207	6,878,698	7,540,783	6,859,518	8,745,847	8,565,907	1,706,389	8,565,907
Customer Billing									
		9,479,737	8,935,559	8,866,310	8,488,516	8,634,341	9,192,696	704,180	9,192,696
Sub-Total	0	9,479,737	8,935,559	8,866,310	8,488,516	8,634,341	9,192,696	704,180	9,192,696
Customer & Community Relations									
		7,191,429	7,290,667	7,010,829	6,477,554	7,892,865	8,459,107	1,981,553	8,459,107
Sub-Total	0	7,191,429	7,290,667	7,010,829	6,477,554	7,892,865	8,459,107	1,981,553	8,459,107
Collections, Accounts & Activities									
		3,120,713	3,775,127	2,882,389	2,231,581	3,278,626	3,377,588	1,146,007	3,377,588
Sub-Total	0	3,120,713	3,775,127	2,882,389	2,231,581	3,278,626	3,377,588	1,146,007	3,377,588
Facilities									
		6,652,188	6,441,641	7,123,923	9,912,474	7,338,521	7,475,608	-2,436,866	7,475,608
Sub-Total	0	6,652,188	6,441,641	7,123,923	9,912,474	7,338,521	7,475,608	-2,436,866	7,475,608
Finance									
		3,917,774	3,847,245	3,963,955	3,298,985	3,340,269	3,416,978	117,993	3,416,978
Sub-Total	0	3,917,774	3,847,245	3,963,955	3,298,985	3,340,269	3,416,978	117,993	3,416,978
Human Resources & Training									
		4,118,272	3,826,980	4,053,590	3,287,343	3,795,303	3,890,319	602,976	3,890,319
Sub-Total	0	4,118,272	3,826,980	4,053,590	3,287,343	3,795,303	3,890,319	602,976	3,890,319
Information Mgt & Technology									
		7,651,842	8,261,849	10,692,063	9,827,813	11,952,687	10,084,556	256,743	10,084,556
Sub-Total	0	7,651,842	8,261,849	10,692,063	9,827,813	11,952,687	10,084,556	256,743	10,084,556
Metering									
		2,265,665	2,477,790	2,200,471	2,018,543	2,585,701	2,611,952	593,409	2,611,952
Sub-Total	0	2,265,665	2,477,790	2,200,471	2,018,543	2,585,701	2,611,952	593,409	2,611,952
Regulatory Affairs									
		2,023,857	2,037,050	2,157,111	2,019,155	2,248,403	2,985,742	966,587	2,985,742
Sub-Total	0	2,023,857	2,037,050	2,157,111	2,019,155	2,248,403	2,985,742	966,587	2,985,742
Safety, Environment & Bus Continuity									
		2,045,255	2,261,796	3,422,633	4,207,164	3,662,418	3,719,278	-487,886	3,719,278
Sub-Total	0	2,045,255	2,261,796	3,422,633	4,207,164	3,662,418	3,719,278	-487,886	3,719,278
Supply Chain									
		1,244,105	1,470,594	1,252,299	1,288,547	1,062,107	1,059,855	-228,692	1,059,855
Sub-Total	0	1,244,105	1,470,594	1,252,299	1,288,547	1,062,107	1,059,855	-228,692	1,059,855
Corporate Costs									
		8,283,850	5,854,631	6,385,358	5,041,203	7,070,979	7,625,461	2,584,258	7,625,461
Sub-Total	0	8,283,850	5,854,631	6,385,358	5,041,203	7,070,979	7,625,461	2,584,258	7,625,461
Miscellaneous								0	0
Total	**83,105,563**	**82,621,195**	**82,244,832**	**86,863,337**	**83,112,860**	**91,990,421**	**93,922,658**	**10,809,798**	**10,817,095**

Notes:

1 Please provide a breakdown of the major components of each OM&A Program undertaken in each year. Please ensure that all Programs below the materiality threshold are included in the miscellaneous line. Add more Programs as required.

2 The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the OM&A budget in the miscellaneous category

UPDATED - Appendix 2-L
Recoverable OM&A Cost per Customer and per FTE 1

	Last Rebasing Year 2016 - OEB Approved	Last Rebasing Year 2016 - Actual*	2017 Actuals*	2018 Actuals*	2019 Actuals	2020 Bridge Year	2021 Test Year
Reporting Basis	**MIFRS**	**MIFRS**	**MIFRS**	**MIFRS**	**MIFRS**	**MIFRS**	**MIFRS**
OM&A Costs	**$ 83,105,563**	**$ 82,621,195**	**$ 82,244,832**	**$ 86,863,337**	**$ 83,112,860**	**$ 91,990,421**	**$ 93,922,658**
O&M		$ 28,137,878	$ 29,158,414	$ 30,002,486	$ 28,556,152	$ 33,590,701	$ 32,778,855
Admin Expenses		$ 54,483,317	$ 53,086,419	$ 56,860,851	$ 54,556,708	$ 58,399,719	$ 61,143,801
Total Recoverable OM&A from Appendix 2-JB 5	$ 83,105,563	$ 82,621,195	$ 82,244,833	$ 86,863,337	$ 83,112,860	$ 91,990,420	$ 93,922,656
Number of Customers 2,4	327,260	325,915	329,927	333,620	339,771	341,559	344,936
Number of FTEs 3,4	623	611	612	605	611	623	616
Customers/FTEs	526	533	539	552	556	549	560
OM&A cost per customer							
O&M per customer	$0	$86	$88	$90	$84	$98	$95
Admin per customer	$0	$167	$161	$170	$161	$171	$177
Total OM&A per customer	$254	$254	$249	$260	$245	$269	$272
OM&A cost per FTE							
O&M per FTE	$0	$46,045	$47,668	$49,615	$46,760	$53,961	$53,247
Admin per FTE	$0	$89,156	$86,785	$94,032	$89,335	$93,815	$99,324
Total OM&A per FTE	$133,460	$135,201	$134,453	$143,647	$136,094	$147,776	$152,571

Notes:

1 If it has been more than four years since the applicant last filed a cost of service application, additional years of historical actuals should be incorporated into the table, as necessary, to go back to the last cost of service application. If the applicant last filed a cost of service application less than four years ago, a minimum of three years of actual information is required.

2 The method of calculating the number of customers must be identified. Should correspond with data provided in Appendix 2-IB.

3 The method of calculating the number of FTEs must be identified. See also Appendix 2-K.

4 The number of customers and the number of FTEs should correspond to mid-year or average of January 1 and December 31 figures.

5 For the test year, the applicant should take into account the system O&M (line 22 of Appendix 2-AB) in developing its forecasted OM&A.

* As outlined in UPDATED Attachment 4-1-5(A) - Employee Compensation Strategy, revisions have been made to 2016, 2017 and 2018 Number of FTEs due to a systemic error in spreadsheet templates.

UPDATED - Appendix 2-D
Overhead Expense

Applicants are to provide a breakdown of OM&A before capitalization in the below table. OM&A before capitalization may be broken down by cost center, program, drivers or another format best suited to focus on capitalized vs. uncapitalized OM&A.

OM&A Before Capitalization	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year
Distribution Operations	$ 42,072,595	$ 42,985,534	$ 40,399,152	$ 44,455,558	$ 45,958,946
Engineering & Design	$ 12,437,569	$ 13,398,062	$ 12,507,395	$ 13,977,990	$ 14,167,879
Customer Billing	$ 8,936,703	$ 8,912,271	$ 9,120,268	$ 9,274,258	$ 9,619,556
Customer & Community Relations	$ 7,300,361	$ 7,010,829	$ 6,477,554	$ 8,003,925	$ 8,617,580
Collections, Acct & Activities	$ 3,781,614	$ 2,948,863	$ 2,371,317	$ 3,278,626	$ 3,377,588
Facilities	$ 6,443,441	$ 7,127,723	$ 9,919,789	$ 7,338,521	$ 7,475,608
Finance	$ 3,847,245	$ 3,963,955	$ 3,303,451	$ 3,340,269	$ 3,441,938
Human Resources & Training	$ 3,889,418	$ 4,056,098	$ 3,316,757	$ 3,853,861	$ 3,939,877
Information Mgt & Technology	$ 10,722,068	$ 10,884,225	$ 10,101,028	$ 11,952,687	$ 10,310,302
Metering	$ 2,856,917	$ 2,621,587	$ 2,454,821	$ 2,967,981	$ 3,074,131
Regulatory Affairs	$ 2,037,050	$ 2,157,111	$ 2,019,155	$ 2,248,403	$ 2,998,222
Safety, Environment & Bus Cont	$ 2,261,796	$ 3,434,261	$ 4,228,570	$ 3,662,418	$ 3,719,278
Supply Chain	$ 2,632,039	$ 2,465,807	$ 2,489,293	$ 2,267,583	$ 2,321,330
Corporate Costs	$ 5,854,631	$ 6,385,206	$ 5,041,203	$ 7,070,979	$ 7,625,461
Total OM&A Before Capitalization (B)	$ 115,073,447	$ 118,351,532	$ 113,749,753	$ 123,693,059	$ 126,647,696

Applicants are to provide a breakdown of capitalized OM&A in the below table. Capitalized OM&A may be broken down using the categories listed in the table below if possible. Otherwise, applicants are to provide its own break down of capitalized OM&A.

Capitalized OM&A	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	Directly Attributable? (Yes/No)	Explanation for Change in Overhead Capitalized
Supply Chain	$ 1,160,695	$ 1,213,508	$ 1,200,746	$ 1,205,476	$ 1,231,474	Yes	
Supervision	$ 2,365,426	$ 2,539,391	$ 2,315,815	$ 2,287,211	$ 2,530,939	Yes	
Engineering	$ 3,020,405	$ 3,235,342	$ 3,153,225	$ 2,910,979	$ 3,184,311	Yes	
Fleet	$ 2,954,501	$ 3,101,160	$ 3,010,871	$ 3,333,470	$ 3,317,225	Yes	
Labour	$ 23,327,587	$ 21,398,793	$ 20,956,236	$ 21,965,502	$ 22,461,088	Yes	
Total Capitalized OM&A (A)	$ 32,828,614	$ 31,488,194	$ 30,636,893	$ 31,702,638	$ 32,725,037		

% of Capitalized OM&A (=A/B)	29%	27%	27%	26%	26%		

UPDATED OPERATIONS, MAINTENANCE AND ADMINISTRATION COST DRIVERS AND PROGRAM VARIANCE ANALYSIS

1. INTRODUCTION

This Schedule describes Hydro Ottawa's operations, maintenance and administration ("OM&A") costs by major program. It also provides a year-over-year variance analysis and a major cost driver variance summary. Variance explanations are provided for program costs with variances greater than $750K, consistent with the materiality threshold that the utility is employing for purposes of this Application.[1]

The information contained in this Schedule is guided by the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements").

2. OM&A COST DRIVERS

Table 1 below identifies the year-over-year cost drivers impacting Hydro Ottawa's OM&A. Explanations for each cost driver are provided thereafter.

[1] Please see Exhibit 1-1-4: Administration for information on the utility's materiality threshold.

Table 1 – AS ORIGINALLY SUBMITTED – Recoverable OM&A Cost Drivers[2] ($'000,000s)

Major Driver	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year
OPENING BALANCE	**$83.1[3]**	**$ 82.6**	**$ 82.2**	**$ 86.8**	**$ 87.5**	**$ 91.9**
Labour Compensation and Benefits (Table 2)		$(0.2)	$3.3	$0.6	$1.6	$2.0
Proactive and Reactive Distribution System Maintenance (Table 3)		$0.1	$0.5	$0.5	$(0.1)	$0.3
Facilities, Insurance, and Fuel (Table 5)		$0.1	$0.3	$2.9	$(1.5)	$0.2
OEB Fees and CDM Allocation (Table 6)		$(0.1)	$0.0	$0.2	$0.2	$0.7
Call Centre, Postage, and Bad Debt (Table 7)		$0.3	$(1.0)	$ (0.7)	$0.8	$0.0
Dark Fiber Fees (Table 8)		$(0.1)	$0.0	$0.3	$0.9	$(1.7)
Technology (Table 9)		$0.8	$0.4	$0.5	$1.3	$0.9
SLA Cost Reclassification		$0.0	$0.0	$(3.7)	$(0.2)	$(0.1)
Other	$(0.5)	$(1.3)	$1.1	$0.1	$1.4	$(0.3)
Total Change	**$(0.5)**	**$(0.4)**	**$4.6**	**$0.7**	**$4.4**	**$2.0**
CLOSING BALANCE[4]	**$ 82.6**	**$ 82.2**	**$ 86.8**	**$ 87.5**	**$ 91.9**	**$ 93.9**

[2] As displayed in Attachment 4-1-4(A): OEB Appendix 2-JB: Recoverable OM&A Cost Driver Table
[3] The 2016 Opening Balance represents that which was approved by the OEB in the adjudication of Hydro Ottawa's *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application* (EB-2015-0004).
[4] Totals may not sum due to rounding.

Table 1 – UPDATED FOR 2019 ACTUALS – Recoverable OM&A Cost Drivers[5] ($'000,000s)

Major Driver	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year
OPENING BALANCE	**$83.1[6]**	**$ 82.6**	**$ 82.2**	**$ 86.8**	**$ 83.1**	**$ 91.9**
Labour Compensation and Benefits (Table 2)		$(0.2)	$3.3	($1.9)	$4.1	$2.0
Proactive and Reactive Distribution System Maintenance (Table 3)		$0.1	$0.5	$0.0	$0.4	$0.3
Facilities, Insurance, and Fuel (Table 5)		$0.1	$0.3	$3.4	$(2.0)	$0.2
OEB Fees and CDM Allocation (Table 6)		$(0.1)	$0.0	$0.2	$0.2	$0.7
Call Centre, Postage, and Bad Debt (Table 7)		$0.3	$(1.0)	$(0.7)	$0.8	$0.0
Dark Fiber Fees (Table 8)		$(0.1)	$0.0	$0.1	$1.0	$(1.7)
Technology (Table 9)		$0.8	$0.4	$0.5	$1.3	$0.9
SLA Cost Reclassification		$0.0	$0.0	$(3.2)	$(0.7)	$(0.1)
Other	$(0.5)	$(1.3)	$1.1	$(2.1)	$3.7	$(0.3)
Total Change	**$(0.5)**	**$(0.4)**	**$4.6**	**$(3.7)**	**$8.8**	**$2.0**
CLOSING BALANCE[7]	**$ 82.6**	**$ 82.2**	**$ 86.8**	**$ 83.1**	**$ 91.9**	**$ 93.9**

2.1. LABOUR COMPENSATION COSTS AND BENEFITS

This first cost driver includes workforce planning, salary increases, step progressions, and changes in insured and statutory benefits, pension, and vacancy allowance.

Negotiated salary increases and step progressions for unionized employees are determined as per Hydro Ottawa's collective agreement with the International Brotherhood of Electrical Workers ("IBEW"). The utility's current collective agreement with the IBEW expires on March 31, 2021. Comparable adjustments are forecasted as merit increases for management and non-union employees.

[5] As displayed in UPDATED Attachment 4-1-4(A): OEB Appendix 2-JB: Recoverable OM&A Cost Driver Table
[6] The 2016 Opening Balance represents that which was approved by the OEB in the adjudication of Hydro Ottawa's *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application* (EB-2015-0004).
[7] Totals may not sum due to rounding.

Hydro Ottawa has taken several proactive measures to contain compensation costs, as outlined in UPDATED Exhibit 4-1-5: Workforce Staffing and Compensation. Table 2 shows total compensation for employees over the 2016-2021 period, including salaries and benefits. The increase in 2018 is largely attributable to overtime costs that were incurred during the restoration activities following three extreme weather events which all caused significant damage to the electricity grid – an ice storm in April, a wind storm in May, and six tornadoes in the Ottawa area in September. As submitted in the utility's original Application, Compensation in 2019 is relatively flat in comparison to 2018, as overtime costs are at a four-year low. After accounting for 2019 actuals, compensation has decreased from 2018, which can be largely explained by reduced overtime, higher than anticipated position vacancies, and a variance in the WSIB Surcharge account - 2018. This account included a surcharge; however, a rebate was received in 2019 due to improvement in claim status year-over-year. Overall, as indicated by the compound annual growth rate ("CAGR") in Table 2 below, the annual average increase in total compensation costs over 2016-2021, including benefits, is 2.0%.

Table 2 – AS ORIGINALLY SUBMITTED – Total Compensation Costs, Including Benefits ($'000,000s)

Total Compensation Costs	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[8]
	$72.1	$71.9	$75.2	$75.8	$77.5	$79.5	2.0%
Year-over-Year Variance[9]		*$(0.2)*	*$3.3*	*$(0.6)*	*$1.6*	*$2.0*	

Table 2 – UPDATED FOR 2019 ACTUALS – Total Compensation Costs, Including Benefits ($'000,000s)

Total Compensation Costs	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR[10]
	$72.1	$71.9	$75.2	$73.3	$77.5	$79.5	2.0%
Year-over-Year Variance[11]		*$(0.2)*	*$3.3*	*$(1.9)*	*$4.1*	*$2.0*	

[8] CAGR represents the compound annual growth rate between 2016 and 2021.
[9] Variance may exist due to rounding.
[10] CAGR represents the compound annual growth rate between 2016 and 2021.
[11] Variance may exist due to rounding.

Figure 1 – Work Crews Restoring Power Following 2018 Tornado Event



2.2. PROACTIVE AND REACTIVE DISTRIBUTION SYSTEM MAINTENANCE

Within the Proactive and Reactive Distribution System Maintenance category, there are three programs which collectively represent 70% of total expenditures, on average:

- Vegetation Management
- Underground Cable Locates
- Spills Cleanup

Table 3 below summarizes Proactive and Reactive Distribution System Maintenance external costs, inclusive of these three categories, and has been updated to reflect 2019 actuals.[12]

Table 3 – AS ORIGINALLY SUBMITTED – Summary of Proactive and Reactive Distribution System Maintenance Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[13]
Vegetation Management	$3.3	$3.2	$3.3	$2.8	$3.0	$3.0	(1.9)%
Underground Cable Locates	$2.1	$2.2	$2.7	$2.8	$2.9	$3.1	8.5%
Spills Cleanup	$0.7	$0.6	$0.8	$1.5	$0.7	$0.7	0.4%
Others	$2.6	$2.8	$2.5	$2.7	$3.1	$3.2	4.0%
TOTAL[14]	**$8.7**	**$8.8**	**$9.3**	**$9.8**	**$9.7**	**$10.0**	**2.9%**
Year-over-Year Variance[15]		*$0.1*	*$0.5*	*$0.5*	*$(0.1)*	*$0.3*	

Table 3 – UPDATED FOR 2019 ACTUALS – Summary of Proactive and Reactive Distribution System Maintenance Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR[16]
Vegetation Management	$3.3	$3.2	$3.3	$2.4	$3.0	$3.0	(1.9)%
Underground Cable Locates	$2.1	$2.2	$2.7	$2.9	$2.9	$3.1	8.5%
Spills Cleanup	$0.7	$0.6	$0.8	$1.5	$0.7	$0.7	0.4%
Others	$2.6	$2.8	$2.5	$2.5	$3.1	$3.2	4.0%
TOTAL[17]	**$8.7**	**$8.8**	**$9.3**	**$9.3**	**$9.7**	**$10.0**	**2.9%**
Year-over-Year Variance[18]		*$0.1*	*$0.5*	*$0.0*	*$(0.4)*	*$0.3*	

[12] The costs shown exclude internal labour costs.
[13] CAGR represents the compound annual growth rate between 2016 and 2021.
[14] Totals may not sum due to rounding.
[15] Variance may exist due to rounding.
[16] CAGR represents the compound annual growth rate between 2016 and 2021.
[17] Totals may not sum due to rounding.
[18] Variance may exist due to rounding.

2.2.1. Vegetation Management

Hydro Ottawa's Vegetation Management program is part of a preventative maintenance approach with the overall goals of maintaining safety clearances and minimizing outages caused by tree contact. The program involves the annual trimming of more than 40,000 trees which are located near overhead power lines, both in the downtown core and in suburban areas. The program is executed by contractors for an annual cost of approximately $3.0M.

The two key drivers of the contract costs are the number of trees trimmed each year and the negotiated contract rate. The cost increase each year represents a general inflationary increase built into the contract price.

In 2019, these contracts were re-tendered through a competitive procurement process and renewed at a lower price point. This resulted in a CAGR rate of -1.9% for the program over the 2016-2021 period.

Figure 2 – Hydro Ottawa Crew Trimming Trees



2.2.2. Underground Cable Locates

The Underground Cable Locates program is part of an overall Public Safety program. Within this program, utilities, home owners, and contractors must call to confirm that any excavation area in which they are working does not contain any buried utility infrastructure. The locate service is then executed by Hydro Ottawa's contractors.

Figure 3 – Underground Cable Locates Public Safety Reminders



Underground Cable Locates requests are customer demand-driven and hence the volume portion of the cost is not controllable by Hydro Ottawa. In the past three years, the volume of calls have increased significantly, largely due to growing demand for fiber-to-the-home ("FTTH") technology, which is expected to continue increasing.[19]

In order to mitigate the associated costs, Hydro Ottawa negotiated an Alternate Locate Agreement as part of a Local Distribution Company ("LDC") consortium which eliminates the need for a locate for low-risk electricity infrastructure work (e.g. hand-digging tree roots). In addition, in 2019 Hydro Ottawa changed its requirement for a relocate to be performed if the previous locate is older than 30 days, with 60 days now serving as the new date of expiration.

[19] FTTH, also called "fiber to the premises" ("FTTP"), is the installation and use of optical fiber from a central point directly to individual buildings – such as residences, apartment buildings, and businesses – in order to provide high-speed internet access.

This change will reduce the number of relocate requests and the associated costs without negatively impacting public safety.

The CAGR for this program over the 2016-2021 period is 8.5%. As noted above, this relatively high rate is driven primarily by customer volumes, with FTTH being the largest contributor. Table 4 below provides detail for two of the Historical Years, showing both the number of locate requests and the average cost per request. The 2019 Historical Year has been added to the updated version of Table 4 below. As a result, the number of locate requests and the average cost per request have been updated.

Table 4 – AS ORIGINALLY SUBMITTED – Indicative Underground Cable Locates Costs

Year	# of Locates	Total Costs ($'000,000s)	Average Cost per Locate
2017 Historical Year	87,622	$2.2	$25.10
2018 Historical Year	102,798	$2.8	$26.82
Percentage Variance	*17.3%*	*25.4%*	*6.9%*

Table 4 – UPDATED FOR 2019 ACTUALS – Indicative Underground Cable Locates Costs

Year	# of Locates	Total Costs ($'000,000s)	Average Cost per Locate
2017 Historical Year	87,622	$2.2	$25.10
2018 Historical Year	102,798	$2.8	$26.82
2019 Historical Year	104,063	$2.9	$28.05
Percentage Variance (2019 vs. 2017)	*18.8%*	*31.8%*	*11.8%*

2.2.3. Spills Cleanup

The Spills Cleanup program costs are driven by the number of spills and the amount of remediation work required.[20] The primary causes of spill cleanup are vehicle fluid spills (i.e. engine oil, hydraulic oil, transmission fluid, etc.) and insulating oil spills from equipment, such as

[20] This program excludes spills resulting from Damage to Plant.

distribution transformers. Distribution transformers were the source of 95% of the reported spill incidents from 2015-2018. Leaking transformers are identified through system operations as well as the Underground Transformer Visual and Thermographic Inspection program (see Figure 4 below for an example of a leaking transformer).

In 2018, there were 120 equipment oil spills identified, 59 of which required remediation. This represented a 40% increase over the 2015-2017 average. This change was driven, in part, by 2018 inspections largely occurring in the eastern region of the City of Ottawa, where the majority of transformers were installed during the 1980s. Not only are the transformers in this area advanced in age, they are situated much closer to the road as compared to other areas, making them more susceptible to corrosion from salt and thus to a higher number of leaks.[21] Although the spills were identified in 2018, the timing of the inspection program resulted in much of the remediation work being completed in 2019, which resulted in the spike in program costs during that year.

Hydro Ottawa is projecting program costs in 2020 and going forward to revert to normal ranges and historical averages.

[21] For more information on the asset demographics and lifecycle of transformers, including average age, please see Section 6 of Exhibit 2-4-3: Distribution System Plan.

Figure 4 – Leaking Transformer



2.3. FACILITIES, INSURANCE, AND FUEL

The third category of cost driver focuses on facilities, insurance, and fuel. Table 5 below displays each of these items and the associated CAGR over the 2016-2021 period. The updated version of Table 5 below reflects updates for 2019 actuals.

Table 5 – AS ORIGINALLY SUBMITTED – Summary of Facilities, Insurance, and Fuel ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[22]
Property Tax	$2.1	$2.1	$2.3	$3.3	$3.0	$3.1	7.8%
Utilities	$1.0	$0.9	$0.9	$1.0	$0.5	$0.5	(12.2)%
Facilities Overlap	$0.0	$0.0	$0.0	$1.7	$0.0	$0.0	N/A
Substation Rental	$0.0	$0.0	$0.0	$0.0	$0.6	$0.6	N/A
Insurance	$1.4	$1.5	$1.6	$1.7	$1.9	$2.0	7.3%
Fuel	$0.6	$0.7	$0.7	$0.7	$0.8	$0.9	8.9%
TOTAL[23]	**$5.1**	**$5.2**	**$5.5**	**$8.4**	**$6.9**	**$7.1**	**6.9%**
Year-over-Year Variance[24]		*$0.1*	*$0.3*	*$2.9*	*$(1.5)*	*$0.2*	

Table 5 – UPDATED FOR 2019 ACTUALS – Summary of Facilities, Insurance, and Fuel ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR[25]
Property Tax	$2.1	$2.1	$2.3	$2.7	$3.0	$3.1	7.8%
Utilities	$1.0	$0.9	$0.9	$1.0	$0.5	$0.5	(12.2)%
Facilities Overlap	$0.0	$0.0	$0.0	$2.6	$0.0	$0.0	N/A
Substation Rental	$0.0	$0.0	$0.0	$0.0	$0.6	$0.6	N/A
Insurance	$1.4	$1.5	$1.6	$1.7	$1.9	$2.0	7.3%
Fuel	$0.6	$0.7	$0.7	$0.8	$0.8	$0.9	8.9%
TOTAL[26]	**$5.1**	**$5.2**	**$5.5**	**$8.9**	**$6.9**	**$7.1**	**6.9%**
Year-over-Year Variance[27]		*$0.1*	*$0.3*	*$3.4*	*$(2.0)*	*$0.2*	

[22] CAGR represents the compound annual growth rate between 2016 and 2021.
[23] Totals may not sum due to rounding.
[24] Variance may exist due to rounding.
[25] CAGR represents the compound annual growth rate between 2016 and 2021.
[26] Totals may not sum due to rounding.
[27] Variance may exist due to rounding.

Property taxes are paid to the City of Ottawa annually based on the value of the buildings and substations and the associated municipal tax rates. In 2019, the spike in taxes was due to the following: (i) overlap in property tax costs that arose during the transition from the Albion and Merivale properties to the Hunt Club and Dibblee properties; and (ii) the increase in the assessed values of the new properties. Property tax in 2020 is anticipated to be higher than 2018 due to higher assessed values from the new buildings only, as the Albion and Merivale buildings were sold in 2019. The percentage increase for the 2021 Test Year is based on the City of Ottawa's projection of a 3% increase.

Utilities include electricity, water, and natural gas. Utility costs are expected to decrease by half, largely due to the net metered solar arrays that were installed at the new buildings in 2019. Notwithstanding the fact that the move to the new facilities occurred during Q2 2019, the impact of this reduction is not seen until 2020 and 2021. This is on account of the overlap in costs experienced in 2019, as described above, with the transition between Albion and Merivale to Hunt Club and Dibblee. Amongst other things, the installation of the net metered solar arrays at the new facilities demonstrates Hydro Ottawa's leadership in the reduction of its environmental footprint. It also contributed to the utility being named one of Canada's Greenest Employers in 2019 (which marked the seventh occasion Hydro Ottawa has earned this distinction).

Figure 5 – Net Metered Solar Arrays at New Facilities



In addition to property taxes and utilities, the transition between Albion and Merivale to Hunt Club and Dibblee entailed a duplication of other facilities-related operating costs, seeing as the Merivale and Albion property sales closed in September and November 2019, respectively. Moving costs of $0.5M are also captured in the “Facilities Overlap” line in Table 5 above.

With respect to substation rentals, Hydro Ottawa and Hydro One Networks Inc. (“HONI”) have joint-use substations. In the case of Hydro Ottawa-owned substations at which HONI has equipment, Hydro Ottawa has been charging HONI rent for the portion of the substation occupied by HONI’s equipment. HONI has recently indicated that it intends to commence a reciprocal arrangement, in which it will charge Hydro Ottawa for the space occupied by Hydro Ottawa’s equipment at HONI-owned substations. Hydro Ottawa has not yet been charged an amount by HONI. Using a similar methodology to its own, however, Hydro Ottawa estimates the expected rental cost will be approximately $0.6M.

Insurance premiums have been increasing approximately 5%-6% per year due to global market factors and higher insured values as new assets come on-line and replacement costs increase

for existing assets. In 2020, this increase is set to be higher, as a full property valuation exercise was completed for insured assets which resulted in an increase to the overall valuation of approximately $100.0M. Along with the significant hardening of the insurance markets due to financial losses by the insurance industry, this has driven large increases for property insurance owned by Hydro Ottawa. Cyber security premiums have also risen significantly, as policy wording and coverage limits were strengthened to mitigate the increasing threat of cyber attacks.

Hydro Ottawa purchases approximately $0.7M per year in fuel. These costs are driven both by market price and consumption. Fuel consumption generally ranges from 50,000 to 70,000 litres per month to support 234 vehicles and other transportation equipment.[28] The consumption for the Bridge Years and Test Year is relatively flat. However, fuel costs are expected to rise over the term of the utility's 2021-2025 rate plan.

2.4. OEB FEES AND CONSERVATION AND DEMAND MANAGEMENT ALLOCATION

The fourth key cost driver is related to fees assessed to Hydro Ottawa by the OEB, in accordance with the OEB's Cost Assessment model, and to conservation and demand management ("CDM") allocation costs. The utility has grouped these together, in light of the fact that they are outside of its control and are driven by public policy and regulatory requirements.

[28] Please see Attachment 2-4-3(F): Fleet Replacement Program for details on Hydro Ottawa's vehicle fleet.

Table 6 – AS ORIGINALLY SUBMITTED – Summary of OEB Fees and CDM Allocation Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[29]
OEB Fees	$1.1	$1.1	$1.1	$1.0	$1.1	$1.6	8.0%
CDM Allocation	$(0.5)	$(0.6)	$(0.6)	$(0.4)	$(0.2)	$0.0	(41.4)%
TOTAL[30]	**$0.6**	**$0.5**	**$0.5**	**$0.7**	**$0.9**	**$1.6**	**21.1%**
Year-over-Year Variance[31]		*$(0.1)*	*$0.0*	*$0.2*	*$0.2*	*$0.7*	

Table 6 – AS REVISED – Summary of OEB Fees and CDM Allocation Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[32]
OEB Fees	$1.1	$1.1	$1.1	$1.0	$1.1	$1.6	8.0%
CDM Allocation	$(0.5)	$(0.6)	$(0.6)	$(0.4)	$(0.2)	$0.0	(41.4)%
TOTAL[33]	**$0.6**	**$0.5**	**$0.5**	**$0.6**	**$0.9**	**$1.6**	**21.1%**
Year-over-Year Variance[34]		*$(0.1)*	*$0.0*	*$0.2*	*$0.2*	*$0.7*	

Table 6 – UPDATED FOR 2019 ACTUALS – Summary of OEB Fees and CDM Allocation Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR[35]
OEB Fees	$1.1	$1.1	$1.1	$1.1	$1.1	$1.6	8.0%
CDM Allocation	$(0.5)	$(0.6)	$(0.6)	$(0.4)	$(0.2)	$0.0	(41.4)%
TOTAL[36]	**$0.6**	**$0.5**	**$0.5**	**$0.7**	**$0.9**	**$1.6**	**21.1%**
Year-over-Year Variance[37]		*$(0.1)*	*$0.0*	*$0.2*	*$0.2*	*$0.7*	

[29] CAGR represents the compound annual growth rate between 2016 and 2021.
[30] Totals may not sum due to rounding.
[31] Variance may exist due to rounding.
[32] CAGR represents the compound annual growth rate between 2016 and 2021.
[33] Totals may not sum due to rounding.
[34] Variance may exist due to rounding.
[35] CAGR represents the compound annual growth rate between 2016 and 2021.
[36] Totals may not sum due to rounding.
[37] Variance may exist due to rounding.

Pursuant to modifications to its Cost Assessment model that were adopted in 2016, the OEB has enabled Hydro Ottawa to record the difference between OEB cost assessments that were built into the utility's 2016-2020 rates and cost assessments that resulted from the new model in a balance sheet variance account.[38] This treatment will not be applicable to Hydro Ottawa's 2021-2025 rates. Accordingly, the utility has included the full amount of OEB cost assessment fees in OM&A starting in 2021.

On March 21, 2019, the 2015-2020 Conservation First Framework ("CFF") program administered by the Independent Electricity System Operator ("IESO") was terminated, pursuant to Ministerial directive. During this program, Hydro Ottawa was providing certain shared services to its internal IESO-funded CDM program. These services included Human Resources ("HR"), Facilities, Information Technology ("IT"), Finance, Communication, and Fleet, for a total cost of $0.6M, as shown in the 2017 and 2018 Historical Years columns in Table 6 above. As a result, Hydro Ottawa's OM&A was reduced by the amount of this allocation during those years. However, after the CFF wind-down period is complete in 2021, this shared service recovery will cease.

2.5. CONTACT CENTRE, POSTAGE, AND BAD DEBT

The next category of cost driver involves matters pertaining to customer care and billing. As shown in Table 7 below, contact centre, postage, and fluctuations in bad debt serve as the primary drivers. The updated version of Table 7 below reflects 2019 actuals. Together, these drivers are set to produce an overall reduction in costs during 2016-2021.

[38] Please see UPDATED Exhibit 4-2-4: Regulatory Costs for further details on the OEB's Cost Assessment model.

Table 7 – AS ORIGINALLY SUBMITTED – Summary of External Contact Centre, Postage, and Bad Debt Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[39]
External Contact Centre	$2.0	$1.7	$1.6	$1.6	$1.7	$1.7	(3.3)%
Postage	$2.1	$1.9	$1.8	$1.8	$1.8	$1.8	(3.2)%
Bad Debt	$1.4	$2.2	$1.5	$0.8	$1.5	$1.5	1.7%
TOTAL[40]	**$5.5**	**$5.8**	**$4.9**	**$4.2**	**$5.0**	**$5.0**	**(1.8)%**
Year-over-Year Variance[41]		*$0.3*	*$(1.0)*	*$(0.7)*	*$0.8*	*$0.0*	

Table 7 – UPDATED FOR 2019 ACTUALS – Summary of External Contact Centre, Postage, and Bad Debt Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR[42]
External Contact Centre	$2.0	$1.7	$1.6	$1.5	$1.7	$1.7	(3.3)%
Postage	$2.1	$1.9	$1.8	$1.8	$1.8	$1.8	(3.2)%
Bad Debt	$1.4	$2.2	$1.5	$0.9	$1.5	$1.5	1.7%
TOTAL[43]	**$5.5**	**$5.8**	**$4.9**	**$4.2**	**$5.0**	**$5.0**	**(1.8)%**
Year-over-Year Variance[44]		*$0.3*	*$(1.0)*	*$(0.7)*	*$0.8*	*$0.0*	

In 2017, Hydro Ottawa signed a contract with a new provider of contact centre services. This resulted in lower costs and better service levels. The costs associated with contact centre services are largely driven by the duration of customer calls. Call lengths have been reduced as a result of increased automation, including planned outage notifications sent to customers in advance through Auto Dialer, Move-In/Move-Out requests processed through the utility's web

[39] CAGR represents the compound annual growth rate between 2016 and 2021.
[40] Totals may not sum due to rounding.
[41] Variance may exist due to rounding.
[42] CAGR represents the compound annual growth rate between 2016 and 2021.
[43] Totals may not sum due to rounding.
[44] Variance may exist due to rounding.

portal, increased usage of MyAccount, and expanded communications through various social media channels.[45] The total contract cost for the contact centre was $2.0M in 2016; by 2021, it is expected to be $1.7M.

Postage rates have historically increased by 3% per year, while Hydro Ottawa's customer growth has averaged 1% per year. Despite these trends, the utility is showing a CAGR of -3.2% on account of its continued success in enrolling customers in e-billing. Hydro Ottawa has achieved the highest e-billing participation rate among Ontario LDCs (almost 50% of customers), which has translated into an estimated annual savings of $1.9M in avoided postage and printing costs.

Bad debt increased significantly in 2017, when the OEB first introduced the Disconnection Moratorium for electricity distributors. To address this increase, Hydro Ottawa undertook several mitigation efforts, including the implementation of Auto Dialer functionality. The Auto Dialer replaced the hand-delivery of the 48-hour warning notices, meaning more customers can be reached and reminded of payments in a much more timely fashion. Since the launch of the Auto Dialer solution, bad debt expenses have been trending more positively. Bad Debt as a percentage of Total Electricity Revenue is a metric that continues to be monitored by the utility, and since 2017, performance has trended in a positive direction. Despite the Disconnection Moratorium, the utility anticipates that bad debt will eventually return to pre-2017 levels.

2.6. DARK FIBER FEES

The construction of an optical telecommunications network was approved by the OEB, as part of Hydro Ottawa's last rebasing application.[46] In 2019, the utility began transitioning from the current leased fiber to the new fiber optic network in stages. The exit fees from the lease contracts (based on the contract terms and conditions) are shown in Table 8 below, which has

[45] More information on these initiatives is available in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives.
[46] Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).

been updated to account for 2019 actuals. Hydro Ottawa expects to exit all of its lease contracts by 2022, which will result in a permanent operating cost reduction of $1.0M.

Table 8 – AS ORIGINALLY SUBMITTED – Summary of Dark Fiber Lease and Exit Fees ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[47]
Annual Lease	1.1	1.0	1.0	0.9	0.7	0.1	N/A
Exit Fee	0.0	0.0	0.0	0.4	1.5	0.4	N/A
TOTAL[48]	**1.1**	**1.0**	**1.0**	**1.3**	**2.2**	**0.5**	**(16.2%)**
Year-over-Year Variance[49]		*(0.1)*	*0.0*	*0.3*	*0.9*	*(1.7)*	N/A

Table 8 – UPDATED FOR 2019 ACTUALS – Summary of Dark Fiber Lease and Exit Fees ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR[50]
Annual Lease	1.1	1.0	1.0	1.0	0.7	0.1	N/A
Exit Fee	0.0	0.0	0.0	0.2	1.5	0.4	N/A
TOTAL[51]	**1.1**	**1.0**	**1.0**	**1.2**	**2.2**	**0.5**	**(16.2%)**
Year-over-Year Variance[52]		*(0.1)*	*0.0*	*0.2*	*1.0*	*(1.7)*	N/A

2.7. TECHNOLOGY

Attachment 1-1-13(B): Digital Strategy identifies Hydro Ottawa's priorities and goals for leveraging information and operational technology in support of its business objectives over the 2021-2025 period. The Digital Strategy revolves around four central themes: an enhanced

[47] CAGR represents the compound annual growth rate between 2016 and 2021.
[48] Totals may not sum due to rounding.
[49] Variance may exist due to rounding.
[50] CAGR represents the compound annual growth rate between 2016 and 2021.
[51] Totals may not sum due to rounding.
[52] Variance may exist due to rounding.

customer experience; evolution of the grid; increased productivity through automation; and participation in energy innovation and technology.

As dependence on technology and automation increases, costs can as well. As the Digital Strategy continues to evolve and align with best practices, Hydro Ottawa is seeking readily-available solutions that best fit our business needs. In many instances, this has taken the form of the utility moving away from traditional on-premise solutions to cloud-based options. Cloud-based options simplify internal infrastructure and leverage turnkey options offered by cloud solutions. With this cloud-based focus, Hydro Ottawa has realized a year-over-year increase in IT subscriptions, resulting in a CAGR of 7.9% over the 2016-2021 period, as shown in Table 9 below.

One of the cost evaluation and control measures applied by Hydro Ottawa to this critical and growing part of the business is benchmarking. For a copy of the IT Budget Assessment Benchmark study that was prepared to support the development of this Application, please refer to Attachment 1-1-12(F).

Table 9 – Summary of Technology Costs ($'000,000s)

	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[53]
Technology Costs	8.2	9.0	9.4	9.9	11.2	12.1	7.9%
Year-over-Year Variance[54]		*0.8*	*0.4*	*0.5*	*1.3*	*0.9*	

2.8. SERVICE LEVEL AGREEMENT COSTS RECLASSIFICATION

Consistent with section 2.4.3.2 of the Filing Requirements and OEB guidance issued in 2018, Service Level Agreement ("SLA") costs were no longer included in OM&A as of 2019.[55] (Please

[53] CAGR represents the compound annual growth rate between 2016 and 2021.
[54] Variance may exist due to rounding.
[55] Ontario Energy Board, Presentation re: *Chapter 1 & 2 Filing Requirements Update for 2019 Applications: Summary of Key Changes* (July 19, 2018), slides 15-16.

see Exhibit 4-2-1: Shared Services and Corporate Cost Allocation and UPDATED Exhibit 3-2-1: Other Revenue Summary for details). Prior to 2019, Hydro Ottawa recorded the SLA revenue in USofA 4325 as Revenues from Merchandising and Jobbing, but left the associated costs in OM&A. With the growth of Hydro Ottawa's affiliate business activity, the amounts charged to these affiliates and the associated costs through SLAs increased significantly, as outlined in Attachment 4-2-1(A): OEB Appendix 2-N - Shared Services and Corporate Cost Allocation, which has been updated for 2019 actuals and can be found in UPDATED Attachment 3-2-1(B): OEB Appendix 2-N - Shared Services and Corporate Cost Allocation. The costs, along with the associated SLA revenue, are now reported in USofA 4330 Costs from Merchandising and Jobbing and are deducted from Hydro Ottawa's OM&A.

3. OM&A PROGRAM COST & VARIANCE ANALYSIS

Pursuant to section 2.4.3 of the Filing Requirements, the following section provides a variance analysis for the 2016-2021 period of Hydro Ottawa's OM&A costs by major program. Table 10 provides Historical, Bridge, and Test Year expenditures by the program categories and the five-year CAGR for each program category. The updated version of Table 10 below reflects 2019 actuals using 2016-2019 Historical Years, 2020 Bridge Year, and 2021 Test Year. Table 11, which has also been updated for 2019 actuals, provides a year-over-year analysis of variances per program, as expressed in both dollar and percentage terms. Any variances exceeding the $750K materiality threshold for this Application are explained. The OM&A program costs shown in Table 10 are net of any allocations to the capital programs and, as of 2019, net of the SLA costs discussed in section 2.8 above.

UPDATED Attachment 4-1-3(D): OEB Appendix 2-D - Overhead Expenses details both the OM&A costs by program before capitalization, as well as the OM&A that has been capitalized. Hydro Ottawa's capitalized overhead costs conform with the OEB's policy on capitalization. The capitalization policy has not changed since 2016, with the percentage of OM&A costs capitalized representing between 26% and 29%. For more details on the utility's capitalization policy, please see Exhibit 2-4-4: Capitalization Policy.

Table 10 – AS ORIGINALLY SUBMITTED – Summary of OM&A Program Costs ($'000s)

Programs	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year	CAGR[56]
Collections, Accounts & Activities	$3,121	$3,775	$2,882	$2,489	$3,279	$3,378	1.6%
Corporate Costs	$8,284	$5,855	$6,385	$6,827	$7,071	$7,625	(1.6)%
Customer & Community Relations	$7,191	$7,291	$7,011	$6,852	$7,893	$8,459	3.3%
Customer Billing	$9,480	$8,936	$8,866	$7,734	$8,634	$9,193	(0.6)%
Distribution Operations	$17,754	$18,885	$19,312	$19,870	$20,382	$21,458	3.9%
Engineering & Design	$6,872	$6,879	$7,541	$7,419	$8,746	$8,566	4.5%
Facilities	$6,652	$6,442	$7,124	$9,541	$7,339	$7,476	2.4%
Finance	$3,918	$3,847	$3,964	$3,042	$3,340	$3,417	(2.7)%
Human Resources & Training	$4,118	$3,827	$4,054	$3,559	$3,795	$3,890	(1.1)%
Information Management & Technology	$7,652	$8,262	$10,692	$10,516	$11,953	$10,085	5.7%
Metering	$2,266	$2,478	$2,200	$2,059	$2,586	$2,612	2.9%
Regulatory Affairs	$2,024	$2,037	$2,157	$2,012	$2,248	$2,986	8.1%
Safety, Environment & Business Continuity	$2,045	$2,262	$3,423	$4,429	$3,662	$3,719	12.7%
Supply Chain	$1,244	$1,471	$1,252	$1,198	$1,062	$1,060	(3.2)%
GRAND TOTAL[57]	**$82,621**	**$82,245**	**$86,863**	**$87,545**	**$91,990**	**$93,923**	**2.6%**

[56] CAGR represents the compound annual growth rate between 2016 and 2021.
[57] Totals may not sum due to rounding.

Table 10 – UPDATED FOR 2019 ACTUALS – Summary of OM&A Program Costs ($'000s)

Programs	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year	CAGR[58]
Collections, Accounts & Activities	$3,121	$3,775	$2,882	$2,232	$3,279	$3,378	1.6%
Corporate Costs	$8,284	$5,855	$6,385	$5,041	$7,071	$7,625	(1.6)%
Customer & Community Relations	$7,191	$7,291	$7,011	$6,478	$7,893	$8,459	3.3%
Customer Billing	$9,480	$8,936	$8,866	$8,489	$8,634	$9,193	(0.6)%
Distribution Operations	$17,754	$18,885	$19,312	$18,154	$20,382	$21,458	3.9%
Engineering & Design	$6,872	$6,879	$7,541	$6,860	$8,746	$8,566	4.5%
Facilities	$6,652	$6,442	$7,124	$9,912	$7,339	$7,476	2.4%
Finance	$3,918	$3,847	$3,964	$3,299	$3,340	$3,417	(2.7)%
Human Resources & Training	$4,118	$3,827	$4,054	$3,287	$3,795	$3,890	(1.1)%
Information Management & Technology	$7,652	$8,262	$10,692	$9,828	$11,953	$10,085	5.7%
Metering	$2,266	$2,478	$2,200	$2,019	$2,586	$2,612	2.9%
Regulatory Affairs	$2,024	$2,037	$2,157	$2,019	$2,248	$2,986	8.1%
Safety, Environment & Business Continuity	$2,045	$2,262	$3,423	$4,207	$3,662	$3,719	12.7%
Supply Chain	$1,244	$1,471	$1,252	$1,289	$1,062	$1,060	(3.2)%
GRAND TOTAL[59]	**$82,621**	**$82,245**	**$86,863**	**$83,113**	**$91,990**	**$93,923**	**2.6%**

[58] CAGR represents the compound annual growth rate between 2016 and 2021.
[59] Totals may not sum due to rounding.

Table 11 – AS ORIGINALLY SUBMITTED – Summary of OM&A Program Variances ($'000s)

Programs	2017-2016 Variance		2018-2017 Variance		2019-2018 Variance		2020-2019 Variance		2021-2020 Variance	
Collections, Account & Activities	$654	*21%*	$(893)	*(24)%*	$(394)	*(14)%*	$790	*32%*	$99	*3%*
Corporate Costs	$(2,429)	*(29)%*	$531	*9%*	$441	*7%*	$244	*4%*	$554	*8%*
Customer & Community Relations	$99	*1%*	$(280)	*(4)%*	$(159)	*(2)%*	$1,041	*15%*	$566	*7%*
Customer Billing	$(544)	*(6)%*	$(69)	*(1)%*	$(1,132)	*(13)%*	$900	*12%*	558	*6%*
Distribution Operations	$1,131	*6%*	$426	*2%*	$558	*3%*	$513	*3%*	$1,075	*5%*
Engineering & Design	$6	*0%*	$662	*10%*	$(122)	*(2)%*	$1,327	*18%*	$(180)	*(2)%*
Facilities	$(211)	*(3)%*	$682	*11%*	$2,417	*34%*	$(2,202)	*(23)%*	$137	*2%*
Finance	$(71)	*(2)%*	$117	*3%*	$(922)	*(23)%*	$299	*10%*	$77	*2%*
Human Resources & Training	$(291)	*(7)%*	$227	*6%*	$(495)	*(12)%*	$236	*7%*	$95	*3%*
Information Management & Technology	$610	*8%*	$2,430	*29%*	$(177)	*(2)%*	$1,437	*14%*	$(1,868)	*(16)%*
Metering	$212	*9%*	$(277)	*(11)%*	$(142)	*(6)%*	$527	*26%*	$26	*1%*
Regulatory Affairs	$13	*1%*	$120	*6%*	$(145)	*(7)%*	$236	*12%*	$737	*33%*
Safety, Environment & Business Continuity	$217	*11%*	$ 1,161	*51%*	$ 1,007	*29%*	$(767)	*(17)%*	$ 57	*2%*
Supply Chain	$226	*18%*	$(218)	*(15)%*	$ (55)	*(4)%*	$(136)	*(11)%*	$ (2)	*0%*
Grand Total[60]	**$(376)**	***0%***	**$4,618**	***6%***	**$ 699**	***1%***	**$4,428**	***5%***	**$1,932**	***2%***

[60] Totals may not sum due to rounding.

Table 11 – UPDATED FOR 2019 ACTUALS – Summary of OM&A Program Variances ($'000s)

Programs	2017-2016 Variance		2018-2017 Variance		2019-2018 Variance		2020-2019 Variance		2021-2020 Variance	
Collections, Account & Activities	$654	*21%*	$(893)	*(24)%*	$(651)	*(23)%*	$1,047	*47%*	$99	*3%*
Corporate Costs	$(2,429)	*(29)%*	$531	*9%*	$(1,344)	*(21)%*	$2,030	*40%*	$554	*8%*
Customer & Community Relations	$99	*1%*	$(280)	*(4)%*	$(533)	*(8)%*	$1,415	*22%*	$566	*7%*
Customer Billing	$(544)	*(6)%*	$(69)	*(1)%*	$(378)	*(4)%*	$146	*2%*	558	*6%*
Distribution Operations	$1,131	*6%*	$426	*2%*	$(1,157)	*(6)%*	$2,228	*12%*	$1,075	*5%*
Engineering & Design	$6	*0%*	$662	*10%*	$(681)	*(9)%*	$1,886	*27%*	$(180)	*(2)%*
Facilities	$(211)	*(3)%*	$682	*11%*	$2,789	*39%*	$(2,574)	*(26)%*	$137	*2%*
Finance	$(71)	*(2)%*	$117	*3%*	$(665)	*(17)%*	$41	*1%*	$77	*2%*
Human Resources & Training	$(291)	*(7)%*	$227	*6%*	$(766)	*(19)%*	$508	*15%*	$95	*3%*
Information Management & Technology	$610	*8%*	$2,430	*29%*	$(864)	*(8)%*	$2,125	*22%*	$(1,868)	*(16)%*
Metering	$212	*9%*	$(277)	*(11)%*	$(182)	*(8)%*	$567	*28%*	$26	*1%*
Regulatory Affairs	$13	*1%*	$120	*6%*	$(138)	*(6)%*	$229	*11%*	$737	*33%*
Safety, Environment & Business Continuity	$217	*11%*	$ 1,161	*51%*	$785	*23%*	$(545)	*(13)%*	$ 57	*2%*
Supply Chain	$226	*18%*	$(218)	*(15)%*	$36	*3%*	$(226)	*(18)%*	$ (2)	*0%*
Grand Total[61]	**$(376)**	***0%***	**$4,618**	***6%***	**$(3,750)**	***(4)%***	**$8,878**	***11%***	**$1,932**	***2%***

[61] Totals may not sum due to rounding.

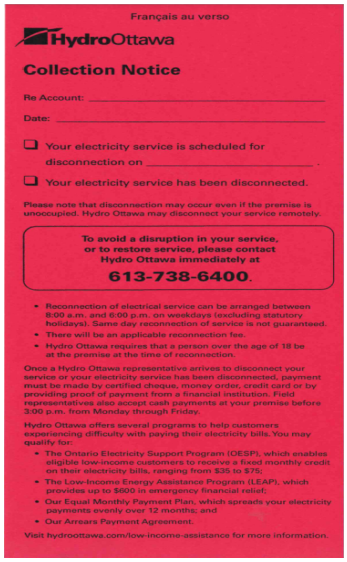
3.1. COLLECTIONS, ACCOUNTS AND ACTIVITIES

The Collections, Accounts and Activities program captures costs associated with Hydro Ottawa's collection activities and bad debt expense. The two main costs in this category are compensation and benefits, and bad debt expense.

The CAGR for this program is 1.6%. Despite higher demand and growth in collection activities, headcount in this program remained flat due to increased automation. The most notable and successful example of the use of automated technology is the implementation of the Auto Dialer solution in 2017. This initiative was implemented to help mitigate the high bad debt expense that was triggered by the imposition of the Disconnection Moratorium.

The Auto Dialer functionality was put in place to replace the 48-hour warning notices that were previously hand-delivered in advance of a disconnection for non-payment. The Auto Dialer costs only $0.26 per notice vs. hand-delivery at a combined labour and fleet hourly rate of $80. The number of hand-delivered 48-hour warning notices sent to customers dropped from 56,746 in 2016 to only 5,300 in 2018. This initiative reduced Hydro Ottawa's bad debt expense and other operational costs such as fuel, while increasing staff capacity to focus on higher-value work.

Figure 6 – 48-Hour Warning Disconnection Notice



Français au verso

HydroOttawa

Collection Notice

Re Account: _____

Date: _____

☐ Your electricity service is scheduled for disconnection on _____ .

☐ Your electricity service has been disconnected.

Please note that disconnection may occur even if the premise is unoccupied. Hydro Ottawa may disconnect your service remotely.

To avoid a disruption in your service, or to restore service, please contact Hydro Ottawa immediately at

613-738-6400.

- Reconnection of electrical service can be arranged between 8:00 a.m. and 6:00 p.m. on weekdays (excluding statutory holidays). Same day reconnection of service is not guaranteed.
- There will be an applicable reconnection fee.
- Hydro Ottawa requires that a person over the age of 18 be at the premise at the time of reconnection.

Once a Hydro Ottawa representative arrives to disconnect your service or your electricity service has been disconnected, payment must be made by certified cheque, money order, credit card or by providing proof of payment from a financial institution. Field representatives also accept cash payments at your premise before 3:00 p.m. from Monday through Friday.

Hydro Ottawa offers several programs to help customers experiencing difficulty with paying their electricity bills. You may qualify for:

- The Ontario Electricity Support Program (OESP), which enables eligible low-income customers to receive a fixed monthly credit on their electricity bills, ranging from $35 to $75;
- The Low-Income Energy Assistance Program (LEAP), which provides up to $600 in emergency financial relief;
- Our Equal Monthly Payment Plan, which spreads your electricity payments evenly over 12 months; and
- Our Arrears Payment Agreement.

Visit hydroottawa.com/low-income-assistance for more information.

The year-over-year variances in this program are mainly due to fluctuations in bad debt expense. The increase in 2017 was attributable to the inaugural implementation of a Disconnection Moratorium, which resulted in high accounts receivable aging and associated bad debt expense. In 2018, the bad debt expense dropped, due to the utility's mitigation efforts described above. The expectation is that these levels will be maintained over the 2020-2021 period.

"Bad Debt as a % of Total Electricity Revenue" is a metric that is being monitored and performance since 2017 is trending in a positive direction.

3.2. CORPORATE COSTS

The Corporate Costs category primarily captures insurance, Future Employee Benefit Costs, and management fees from Hydro Ottawa's parent company, Hydro Ottawa Holding Inc. (Please refer to Exhibit 4-2-1: Shared Services and Corporate Cost Allocation for additional details on management fees).

Corporate Costs show a decrease in 2017 compared to 2016 due to the recognition of non-vested sick leave credits of $1.5M in 2016. In 2016, a liability and associated expense was recognized for accumulated sick leave credits for unionized employees based on an actuarial valuation of $1.5M. Hydro Ottawa's unionized employees earn sick leave days each year and unused days are carried forward for use in future years. However, when an employee retires or is terminated, there is no pay-out of the accumulated sick leave credits since they do not vest. The expense in each of the remaining Historical, Bridge, and Test Years is minimal as it only represents a true-up of the balance.

After accounting for 2019 actuals, 2019 Corporate Costs dropped by $1.3M. This can be partially explained by the variance in the WSIB Surcharge account - 2018, which included a surcharge. However, a rebate was received in 2019 due to improvement in claim status year-over-year. The expectation for 2020 is back to a neutral level (i.e. neither rebate nor surcharge).

The CAGR for Corporate Costs, excluding this one-time amount of $1.5M in non-vested sick leave credits, is approximately 2.4%. All items remain relatively flat except for insurance premiums, which are on the rise because of the following reasons:

- Higher overall insured property values (including for Hydro Ottawa's new administrative and operations buildings), new substations, and the increase in replacement costs of the existing substations directly affect the cost of the policy.
- The property market has seen significant "hardening of the market" due to large financial losses incurred by insurance companies globally, which they are looking to recover. This includes catastrophic events in Canada such as wildfires (Fort McMurray), flooding (Calgary, eastern Canada), tornadoes (Ontario, including Ottawa) and an increasing number of wind and ice storms.

- For a utility like Hydro Ottawa, cyber threats are increasing, and ever-changing in complexity and volume. Higher premiums for cyber coverage reflect the increased coverage and limits required to mitigate cyber threats.

3.3. CUSTOMER AND COMMUNITY RELATIONS

The Customer and Community Relations program captures costs associated with customer experience, Key Accounts, customer contact, and communications staff. Half of the costs are salaries and benefits. The other half includes the Customer Contact Centre services, technology costs, media communications, and the administration of the provincially-mandated Low-Income Energy Assistance Program ("LEAP") and Ontario Electricity Support Program ("OESP").

As discussed in Exhibit 4-1-6: Conservation and Demand Management, despite the previous IESO-funded, LDC-delivered CDM program being terminated in 2019, Hydro Ottawa proposes to sustain a level of customer engagement, community outreach, and collaboration with other industry players in the CDM space, in order to remain a trusted advisor to its customers and to be able to partner in the pursuit of a smart energy future.

Through the effective delivery of CDM programming to its customers over the past 15 years, Hydro Ottawa has established a solid reputation as a trusted advisor providing energy-saving expertise in Ottawa's communities. By engaging customers in energy efficiency initiatives, the utility's goal is to reduce total electricity usage, avoid energy waste, and encourage customers to use less energy at times of high demand in Ottawa so as to support province-wide system needs.

Hydro Ottawa is proposing to continue this type of CDM programming starting in mid-2021, with funding recovered through rates – $0.2M in 2021, seeing as that year's needs are only partial, following on the heels of the expiration of the CFF framework, and $0.5M from 2022-2025. This funding would be allocated to compensation, marketing, and miscellaneous costs.

Contact centre service costs were reduced substantially from 2016, as a result of a transition to a new service provider and a decrease in average call duration. The reduction in call minutes is attributable to increased automation: planned outage notifications sent to customers in advance through Auto Dialer, Move-In/Move-Out requests processed through a web portal, increased usage of MyAccount, and increased communications through various social media channels. The reduction of contact centre costs was paired with an increase in service offerings from Hydro Ottawa. Contact centre hours were extended to include Saturday. In addition, several additional technology improvements have been implemented including the following:

- Social login – customers can now login to their Hydro Ottawa account using their passwords for email, Facebook, and Google.
- Customer service is available in 120 languages.
- Call-back assist – customers can request a call-back versus waiting on hold.
- Streamlined call-in system – one number for both outages and services.
- Customer self-serve telephony uses voice recognition technology known as “My Voice is My Password.”

The increase in 2020 from 2019 is largely explained by investments in increased automation, including administration and technical support for Hydro Ottawa’s mobile application program and Field Service Management. These solutions will enhance the customer experience and the efficiency of field operations.

3.4. CUSTOMER BILLING

Customer billing includes costs associated with Billing, Meter to Cash (“MTC”), and Meter Data operations and staff.[62] Technology costs represent about 40% of overall costs, while compensation represents approximately 33%.

[62] The MTC group includes the Enterprise Customer Care & Billing System application, Advanced Metering Infrastructure and related applications and data flows which enable business operations, and regulatory compliance for electricity revenue billing.

The overall program costs decreased by an average of 0.6%. These savings are largely associated with a reduction in postage costs on account of increased rates of e-billing enrollment. As noted above, Hydro Ottawa has achieved the highest e-billing participation rate among Ontario LDCs (almost 50% of customers), with estimated annual savings of $1.9M in avoided postage and printing costs. As an added benefit, Hydro Ottawa's e-billing success is also helping the environment by reducing the use of paper and transportation.

Figure 7 – E-Billing "Go Paperless" Campaign[63]



These postage savings are partially offset by increases in compensation and benefit costs, while the headcount in this area remained flat. The reduction in 2019, and the subsequent increase in 2020, are due to the timing of the Customer Care & Billing System upgrade project and the capitalization of internal resources dedicated to the development, configuration, and implementation of the program whereby not all of the resources were backfilled.

[63] Hydro Ottawa's donations to the Children's Hospital of Eastern Ontario ("CHEO") through its "Go Paperless" campaign are not rate-recoverable. Please see 4-2-6: Charitable and Political Donations for details.

3.5. DISTRIBUTION OPERATIONS

Distribution Operations includes costs associated with the operations and maintenance of Hydro Ottawa's distribution assets. Programs in this area include Vegetation Management, Underground Cable Locates, Pole Inspections, Cable Inspections, Infra-Red ("IR") Scanning, Load Dispatching, and other general maintenance.

Distribution Operations spending increased $1.1M in 2017 (6%) vs. 2016 and $0.4M (2%) in 2018 vs. 2017. Spending subsequently decreased $1.2M in 2019 (6%) vs. 2018. The major increases are driven by a larger volume of work and are associated with the following distribution maintenance programs:

- **Vegetation Management:** the Vegetation Management Program is a prevention investment that is designed to produce long-term reliability gains, while maintaining safety clearance requirements. Trees that contact power lines are one of the major causes of power failure. Hydro Ottawa's System Average Interruption Frequency Index ("SAIFI") caused by tree contacts remained low at 0.08 to 0.12 through 2016-2018, while the industry average was 0.18.[64] Planned cycle trim costs averaged $2.7M annually from 2016-2018. However, several significant adverse weather events in 2017 and 2018 contributed to higher than expected total spend over that timeframe ($0.4M in total storm response costs in 2017 and $0.5M in 2018). Storm response decreased in 2019, which contributed to a $0.3M reduction in outside services from 2018. Over 80% of the program costs are related to outside services. Program costs are expected to decrease through 2021, as a result of Hydro Ottawa having re-tendered and renegotiated its service provider contract in 2019. Renegotiation efforts in 2019 led to delays in planned cycle trim efforts that will catch up in 2020.

- **Underground Cable Locates:** the Underground Cable Locates program costs increased over the period of 2016-2020. Two-thirds of the increase is volume-related

[64] Source: 2016-2018 Canadian Electricity Association Service Continuity Reporting.

(i.e. customer demand), while the remaining one-third is due to inflationary pricing increases in Hydro Ottawa's external vendor contract. (Please see section 2.2 above). In 2018, Telecom companies' FTTH initiatives in Ottawa prompted an approximately 20% increase in locate volumes over 2016-2017 levels. This volume increase translated into a rise in costs from $2.2M in 2017 to 2.7M in 2018 and to $2.9M in 2019. Volumes are expected to continue growing through 2025. Hydro Ottawa has taken several steps to control program costs, including the establishment of Alternate Locate Agreements in situations where an approved excavator can dig without receiving a traditional locate and the extension of the validity period for locates from 30 to 60 days.

Despite the cost increases in the foregoing programs, the average annual growth rate for overall Distribution Operations remained 3.9%.

The $1.0M increase in 2021 from 2020, as submitted in the utility's original Application, represents a 5% increase. After taking 2019 actuals into account, Distribution Operations spending is set to increase $2.2M in 2020 (12%) vs. 2019 actuals, and by an additional $1.1M in 2021 from 2020 (5%). This is largely explained by vacant positions which are expected to be filled in 2020, as well as general compensation increases, as per collective agreements and insured and statutory benefits. Other increases are driven by volume and contract price increases for distribution maintenance.

Table 12 below, which has been updated for 2019 actuals, provides a summary of Distribution Operations by category.

Table 12 – AS ORIGINALLY SUBMITTED – Summary of Distribution Operations ($'000,000s)

	2016 Historical Year[65]	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year	2021 Test Year
Distribution Support Programs	$2.8	$4.0	$4.6	$4.6	$4.6	$4.9
Distribution Testing, Inspection & Maintenance	$1.7	$1.9	$2.0	$1.8	$2.2	$2.2
System Operating	$5.5	$4.6	$5.3	$4.9	$5.1	$5.2
Vegetation Management[66]	$4.2	$4.4	$4.0	$3.4	$3.9	$3.9
Distribution Maintenance	$1.9	$2.4	$1.7	$2.3	$2.4	$2.4
Stations Maintenance	$2.2	$1.8	$2.0	$2.1	$2.2	$2.2
Other[67]	$(0.6)	$(0.3)	$(0.3)	$0.7	$0.0	$0.6
TOTAL[68]	**$17.8**	**$18.9**	**$19.3**	**$19.9**	**$20.4**	**$21.4**

[65] Financials for 2016 were remapped from a different general ledger structure. Program spending may therefore be inconsistent from 2017 to 2021, thus impeding any calculation of CAGR. Accordingly, CAGR is not displayed in this table.
[66] Vegetation Management in this table includes internal labour costs. Table 3 includes external costs only.
[67] "Other" comprises compensation for these programs offset with allocation recoveries, and other general operating and administrative costs associated with Distribution Operations (e.g. small tools). Such costs are not allocated to the subprogram level.
[68] Totals may not sum due to rounding.

Table 12 – UPDATED FOR 2019 ACTUALS – Summary of Distribution Operations ($'000,000s)

	2016 Historical Year[69]	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year	2021 Test Year
Distribution Support Programs	$2.8	$4.0	$4.6	$4.9	$4.6	$4.9
Distribution Testing, Inspection & Maintenance	$1.7	$1.9	$2.0	$1.5	$2.2	$2.2
System Operating	$5.5	$4.6	$5.3	$5.0	$5.1	$5.2
Vegetation Management[70]	$4.2	$4.4	$4.0	$2.8	$3.9	$3.9
Distribution Maintenance	$1.9	$2.4	$1.7	$2.1	$2.4	$2.4
Stations Maintenance	$2.2	$1.8	$2.0	$1.8	$2.2	$2.2
Other[71]	$(0.6)	$(0.3)	$(0.3)	$0.1	$0.0	$0.6
TOTAL[72]	**$17.8**	**$18.9**	**$19.3**	**$18.2**	**$20.4**	**$21.4**

The sections below describe each category of Distribution Operations in more detail.

3.5.1. Distribution Support Programs

This category includes all operating and maintenance programs required to support the design, construction, and operation of the distribution system. Table 13 below contains Asset / Activity descriptions for Distribution Support Programs.

[69] Financials for 2016 were remapped from a different general ledger structure. Program spending may therefore be inconsistent from 2017 to 2021, thus impeding any calculation of CAGR. Accordingly, CAGR is not displayed in this table.
[70] Vegetation Management in this table includes internal labour costs. Table 3 includes external costs only.
[71] "Other" comprises compensation for these programs offset with allocation recoveries, and other general operating and administrative costs associated with Distribution Operations (e.g. small tools). Such costs are not allocated to the subprogram level.
[72] Totals may not sum due to rounding.

Table 13 – Asset/Activity Descriptions for Distribution Support Programs

Asset / Activity	Description
Transformer Shop	**Transformer Shop** *All costs associated with the repair and testing of distribution transformers in Hydro Ottawa's transformer shop.*
General Operating	**Records Field Checks & Standards Development** *All costs associated with Field Verification of distribution records and the development of standards, including labour associated with participating in the committee meetings of industry and standard-setting bodies.*
Power Quality Programs	**Power Quality Administration** *All costs associated with power quality investigations (as per section 2.3.2.1 of Hydro Ottawa's Conditions of Service).*
	Power Quality Monitoring Services *Costs associated with the monitoring and investigation of power quality on Hydro Ottawa's system.*
Underground Lines & Feeders	**Excavator Supervision** *Safety supervision of contractors excavating in proximity to Hydro Ottawa plant.*
	Underground Locate Service *Contracted services for protection of the Hydro Ottawa underground system (underground locates services and Ontario One–Call).*

3.5.2. Distribution Testing, Inspection & Maintenance

This category includes planned operating and maintenance programs associated with the testing, inspection, and maintenance of the distribution system. Table 14 below contains Asset / Activity descriptions for Distribution Testing, Inspection & Maintenance.

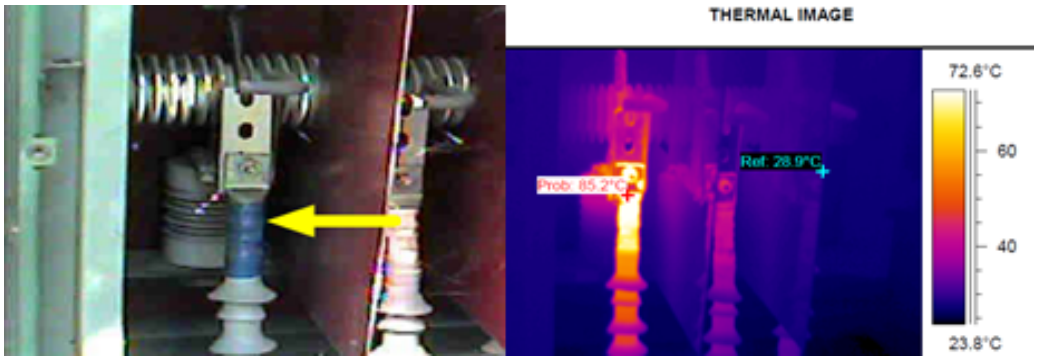
Table 14 – Asset/Activity Descriptions for Distribution Testing, Inspection & Maintenance

Asset / Activity	Description
Cable Chamber	**Cable Chamber Inspection** *Condition inspection of Hydro Ottawa and customer-owned cable chambers, which are integral to Hydro Ottawa's system.The inspection includes reviewing the condition of the collar, lid, roof, and walls. Cable chamber components that pose an immediate risk to the public, workers, or reliability of the distribution system are identified for immediate corrective actions. If they pose a reduced risk they are identified for planned corrective actions at a later date.*
Distribution Poles	**Pole Inspection** *Work to inspect and test all Hydro Ottawa distribution poles, on a 10-year cycle. Inspection information and estimated remaining strength, using the results of non-destructive resistograph drill tests, are used to assess the pole's condition. Condition information is used to identify and prioritize pole replacement programs.*
Insulator Washing	**Insulator Washing Overhead** *Costs associated with the planned washing of Hydro Ottawa's overhead insulators, in areas subjected to salt spray and heavy contamination to prevent insulation breakdown and pole fires.*
Overhead Inspection	**Overhead Thermographic Inspection** *Costs associated with the overhead thermographic scanning of all overhead assets on a 3-year cycle. Scanning is used to detect abnormal temperature conditions in equipment and connections.*
Overhead Maintenance	**Overhead Switch Maintenance** *Planned detailed inspection and corrective maintenance of Hydro Ottawa's critical overhead distribution switchgear (switch and controls).*
Underground Maintenance	**Hydro-Owned Vault Maintenance** *Planned maintenance of Hydro Ottawa-owned easement/shared vaults within customer facilities. This planned program subjects its vault transformers to a visual and thermographic inspection in addition to minor cleaning.*
Transformers - Underground	**Graffiti Abatement** *Work associated with Hydro Ottawa's Graffiti Abatement program supports compliance with the City of Ottawa's Graffiti By–Law.*
	Padmount Transformer Painting *Planned painting of Hydro Ottawa's padmount transformers, where the finish has deteriorated overtime.*
General Plant	**SCADA Maintenance** *Planned maintenance of Hydro Ottawa Supervisory Control and Data Acquisition ("SCADA") devices. Includes visual inspection, checking communication, cleaning, torquing, and function testing.*
Underground Lines & Feeders	**Cable Testing** *Planned testing of Hydro Ottawa's in–service distribution cable. Testing is completed using non-destructive testing technology to determine the cable's probability of failure resulting from water tree migration. The testing results are used to prioritize cable replacement programs.*
Customer Operating	**Field Ops Vault Inspections** *Inspection of customer-owned vaults to identify deficiencies found that would affect operations or safety. Issues are flagged to equipment owners for corrective action.*
Underground Switchgear	**Switchgear CO2 Wash – Padmounted Gear** *Dry–ice washing of Hydro Ottawa's air insulated underground distribution switchgear, including cleaning of its internal mechanism.*
Underground Thermographic Inspection	**Underground Switchgear Thermographic and Visual Inspection** *Visual and thermographic inspection of Hydro Ottawa's gas-insulated and air-insulated distribution padmount switchgear.*
	Underground Transformer Thermographic and Visual Inspection *Visual and thermographic inspection of Hydro Ottawa's underground transformers.*

Figure 8 – Pole Testing Using Resistograph Drill



Figure 9 – Thermographic Scan Identifying Hotspot in Distribution Switchgear



3.5.3. System Operating

This category includes work associated with daily operations of the distribution system and with event response. Table 15 below contains Asset / Activity descriptions for System Operating.

Table 15 – Asset/Activity Descriptions for System Operating

Asset / Activity	Description
Load Dispatching	**Control Room Labour** *System operator dispatch labour costs.*
	General System Switching *System switching, not directly tied to specific system work.*
	HONI Switching *Cost of HONI Switching requested by Hydro Ottawa.*
Overhead Transformers	**Operating Overhead Transformers** *Inspection testing, removing, or resetting of overhead transformers.*
Overhead Lines & Feeders	**Operating Overhead** *Inspecting and testing overhead lines including lightning arrestors, line circuit breakers, switches, and grounds.*
Underground Lines & Feeders	**Operating Underground** *Inspecting and testing underground lines; patrolling.*
Underground Transformers	**Operating Underground Transformers** *Inspection testing, removing, or resetting of underground transformers.*
General Operating	**24/7 Police & Fire Call Response** *Costs associated with 24/7 response to police and fire calls.*
General Operating	**Vault Maintenance Coordination Labour** *Coordination of customer vault maintenance.*

Figure 10 – Control Room System Operator Performing Dispatching



3.5.4. Vegetation Management

This category includes all work associated with the vegetation management of Hydro Ottawa's existing overhead lines. Table 16 contains Asset / Activity descriptions for Vegetation Management.

Table 16 – Asset/Activity Descriptions for Vegetation Management

Asset / Activity	Description
Tree Trimming	**Vegetation Management – Regular Cycle Trim** *Trimming of trees, as part of the normal tree trimming cycle, according to current Hydro Ottawa tree trimming standards.*
	Vegetation Management – Off Cycle Spot Trim *Trimming of trees, outside of normal trim cycle, that pose a hazard to reliability or safety, and the removal of which falls within current Hydro Ottawa tree trimming standards.*
	Vegetation Management – Off Cycle City of Ottawa *Trimming of trees, outside of normal trim cycle, whose removal falls within current Hydro Ottawa tree trimming standards and for which a request was initiated by the City of Ottawa.*
	Vegetation Management – Off Cycle Customer Calls *Trimming of trees, outside of normal trim cycle, whose removal falls within current Hydro Ottawa tree trimming standards and for which a request was initiated by a customer.*
	Vegetation Management – Storm (Emergency) *Vegetation management required in response to a system outage, imminent event, or safety hazard.*
	Vegetation Management – Emerald Ash Borer *Costs associated with the removal of trees affected by the Emerald Ash Borer.*

Figure 11 – Crews Performing Tree Trimming near Overhead Lines



3.5.5. Distribution Maintenance

This category includes unplanned work to repair or maintain the distribution system. Table 17 below contains Asset / Activity descriptions for Distribution Maintenance.

Table 17 – Asset/Activity Descriptions for Distribution Maintenance

Asset / Activity	Description
Asbestos Removal	**Asbestos Removal & Re–fireproofing** *Removal of asbestos fireproofing from distribution cables and installing new arc-proof tape.*
Poles & Towers	**Repair Poles & Fixtures** *Repair and maintenance of poles and fixtures, excluding guy and anchor repairs.*
	Repair Guying *Repair and maintenance of pole guying and anchors.*
Overhead Maintenance	**Overhead Repairs – Conductors & Devices** *Overhauling and repairing line switches and reclosers. Cleaning Insulators and Bushings. Refusing line cut–outs. Excludes repairs to grounding.*
	Repair Pole Grounds *Repairing pole grounds.*
Overhead Services	**Overhead Repairs – Secondary Services** *Repair of overhead secondary conductors.*
Underground Conduit	**Underground Repairs – Conduit** *Moving or changing position of conduit or pipe. Minor alteration repairs or moving racks, ladders, or hangers in hand holes or manholes.*
Underground Conductors and Devices	**Underground Repairs – Secondary Conductor & Devices** *Repairing secondary conductors, splices, and connections. Repairing or moving junction boxes*
	Switchgear Maintenance *Repair of underground switches, breakers, and control wiring.*
	Underground Repairs – Primary Conductors & Devices *Repairing conductors, splices, and connections. Repairing or moving junction boxes and potheads. Re–fireproofing cable and repairing supports. Excludes services.*
Underground Services	**Underground Repairs – Secondary Services** *Repair of underground secondary services.*
Transformers - Overhead	**Transformer Repairs – Overhead Transformers** *Renewing oil, painting and the like, that is necessary to keep equipment in service. Includes transformer lightning arresters.*
Transformers - Underground	**Transformer Repairs – Underground Transformers** *Renewing oil, painting, and the like that is necessary to keep the equipment in service. Includes transformer lightning arresters.*

3.5.6. Stations Maintenance

This category includes all planned and unplanned work associated with station maintenance. Table 18 contains Asset / Activity descriptions for Station Maintenance.

Table 18 – Asset/Activity Descriptions for Station Maintenance

Asset / Activity	Description
Station Transformers	**Transformer & Tap Changer Preventative Maintenance** *Work associated with planned preventative maintenance of station transformers and tap changers. Work is carried out every three to five years, and includes electrical testing and mechanical maintenance. Transformer tap changer maintenance intervals vary with the type.*
	Transformer & Tap Changer Reactive Maintenance *All work associated with unplanned corrective maintenance of station transformers and tap changers.*
	Transformer Inspection *Work associated with Hydro Ottawa's annual predictive station transformer maintenance, which includes a detailed visual inspection and infrared scans.*
	Transformer Oil Analysis *Work associated with oil-dissolved gas and oil quality analysis, undertaken as part of annual transformer predictive maintenance. This program includes a furan analysis to assess the degradation of the transformer's paper insulation, which is completed on a 5-year cycle.*
	Transformer Monitor Maintenance *Work associated with maintaining temperature controllers and online dissolved gas analysis monitors ("ODGA") on station transformers. These monitors support continuous monitoring of station transformers through SCADA to provide operational and asset condition related information.*
Station Switchgear	**Switchgear & Breaker Inspection** *All work associated with annual visual and thermographic inspection of station breaker, switchgear, and components.*
	Switchgear & Breaker Maintenance - Preventative *All work associated with planned maintenance of station breakers, switchgear and components. Work is carried out every four to six years. Preventative maintenance is performed on breakers, including electrical, mechanical, and type-specific maintenance tasks.* *Every 10 years, detailed preventative maintenance is performed on the entire switchgear assembly, including detailed internal visual inspections, insulation resistance tests, and ensuring that there are no structural deficiencies in the switchgear (e.g. cracks, leaks, or warped metal).*

Asset / Activity (Cont'd)	Description (Cont'd)
Station Switchgear	**Switchgear & Breaker Maintenance - Reactive** *All work associated with unplanned maintenance of station breakers, switchgear, and components.*
Relays	**Relay Maintenance - Preventative** *All work associated with planned maintenance of relays. Relay maintenance includes function testing, calibration of electromechanical relays, and protection setting updates, if required.*
	Relay Maintenance - Reactive *All work associated with unplanned maintenance of relays.*
DC System	**DC System Maintenance - Preventative** *Work associated with planned annual maintenance of station DC systems (Batteries and Chargers). Detailed predictive maintenance is performed on station battery banks and chargers. This includes a detailed visual inspection, infrared scan, as well as electrical and mechanical tests.*
	DC System Maintenance - Reactive *All work associated with unplanned maintenance of station DC systems, batteries, and chargers.*
Structures	**Station Structures** *All work associated with maintenance of station structures.*
IR Scan	**Station IR Scanning** *Planned thermographic scanning in stations.*
Station Inspections	**Station Inspections** *Hydro Ottawa performs monthly station inspections to check for any deficiencies and initiate corrective actions. Annual thermographic scan of all electrical components in the station is completed.*

1

Figure 12 – Station Transformer Maintenance



3.6. ENGINEERING AND DESIGN

The Engineering and Design program includes costs associated with Distribution Design, System Operations, Asset Planning, Policies, Procedures, and Standards. Over 80% of the costs are labour costs, with the remaining 20% being mostly technology costs related to the Geographic Information System ("GIS") system, SCADA, and the asset management software Copperleaf C55.[73]

[73] Please see section 1.8 of Exhibit 2-4-3: Distribution System Plan for more information on these items.

Costs were flat through 2019, as reflected in the utility's original Application, and decreased $0.7M after accounting for 2019 actuals, but are set to increase in 2020 due to technical support requirements for the new SCADA system and growing organizational demand for technical support in maintenance programs and standards. Higher costs in IT license and maintenance contracts, as well as general compensation and benefit increases, are also a factor. The decrease in 2019 is primarily due to compensation, which is attributed to both overtime costs (which were at a four-year low) and vacancies that were not filled. Vacant positions are expected to be filled in 2020.

3.7. FACILITIES

The Facilities program costs consist of maintenance and operating costs for Hydro Ottawa's administrative and operations buildings and substations. Such costs include summer and winter civil maintenance, cleaning, waste management, building electrical, mechanical, safety, security, general repair, utilities, and property taxes. Approximately 40% of total program costs are property taxes.

In 2019, as submitted in the utility's original Application, Facilities program costs increased by $2.4M, or 34%, and $2.8M, or 39%, after accounting for 2019 actuals, primarily on account of the timing overlap in the sale of the utility's old buildings and the occupation of its new ones, in addition to other one-time costs such as moving expenses. This overlap spike is temporary in nature, as reflected in the $2.2M reduction anticipated in 2020. After accounting for 2019 actuals, the revised reduction is anticipated to be $2.6M in 2020.

There is also a reduction in utility costs in 2020 due to the net metered solar arrays at the new facilities, which help offset utility costs. However, these savings will themselves be offset by substation rental charges payable to HONI, as discussed in section 2.3 above.

3.8. FINANCE

The Finance program costs consist primarily of salaries and benefits relating to functions such as accounts receivable and payable, capital asset accounting, banking, audit, budget and accounting support, and financial reporting. Compensation is the main cost driver of the program, however headcount has remained steady over the past four years.

The $0.9M, or 23%, cost reduction in 2019 vs. 2018 (which has been updated to $0.7M, or 17%, after accounting for 2019 actuals) is attributable to SLA Reclassification, as explained in section 2.8 above. Many Finance employees provide services to affiliates. Had this reduction not occurred, 2019 Finance costs would have been $3.8M. When taking 2019 actuals into account, Finance costs would have been $4.0M. This latter figure would have nevertheless still represented a cost reduction from 2018 due to the successful execution of various productivity initiatives and an enduring commitment to cost control.

Finance program costs in 2019, 2020, and 2021 include cost-saving impacts relating to the elimination of external support for cheque payment processing. The volume of cheques and reduction in equipment and technology costs have proven that internal payment processing will be less costly.

When excluding the aforementioned SLA reclassification, the CAGR for Finance program costs between 2016 and 2021 is 1%.

3.9. HUMAN RESOURCES & TRAINING

Included in the Human Resource & Training program are costs pertaining to the provision of HR support, talent development, trades-specific training, labour relations legal costs, and payroll administration costs.

Spending has been relatively steady in this program. The drop, as submitted in the utility's original Application, in 2019 of $0.5M, or 12% (which has been updated to a drop of $0.8M, or

19% after accounting for 2019 actuals) is connected with SLA Reclassifications, as explained in section 2.8 above. All variances are below the materiality threshold.

3.10. INFORMATION MANAGEMENT AND TECHNOLOGY

The Information Management and Technology ("IM&T") program is comprised of compensation and benefits and externally-sourced operating costs to deliver services relating to IT Infrastructure, including Helpdesk Support, Application Support, Data Management, Information Management, IT Security (cybersecurity), and IT Project Planning. As described in Exhibit 1-1-13: Productivity and Continuous Improvement Initiatives, many technology and automation initiatives have been implemented since 2016, which has helped to cascade efficiency savings throughout other programs across Hydro Ottawa.

The $2.4M, or 29%, increase in 2018 vs. 2017 is largely explained by post-go-live activities associated with the Enterprise Resource Planning ("ERP") upgrades and Human Resource Capital (i.e. Workday) system implementation completed at the end of 2017. More specifically, in 2018, following a stabilization period, the incorporation of additional features and modules into the ERP and Workday systems led to further automation of business processes and thus leveraged the previous year's investments.

The decrease in 2019 of $0.9M, or 8%, is connected with SLA Reclassifications, as explained in section 2.8 above. The increase in 2020 vs. 2019, as submitted in the utility's original Application, is $1.4M, or 14% (which has been updated to an increase of $2.1M, or 22% after taking 2019 actuals into account). This increase is primarily due to a one-time termination fee to cancel the use of certain strands under the dark fibre lease. Beginning in 2022, Hydro Ottawa will no longer lease dark fibre. This will yield annual IM&T operating cost savings of $1.1M (please see section 2.6 for additional details). The one-time termination fee was removed from the 2021 budget. These two reductions explain the budget reduction in 2021.

3.11. METERING

Metering program costs are comprised of the costs of operating and maintaining Hydro Ottawa's meter fleet. Activities include, but are not limited to, testing and inspections, cross readings and investigations, and field retrieval. Compensation is the main cost driver in the program.

Overall program costs have remained fairly stable. However, there were some temporary cost reductions in 2018 and 2019 which were primarily driven by timing differences between employee departures and replacements. None of the variances exceed the materiality threshold. The overall CAGR of the Metering program over the 2016-2021 timeframe is 2.9%.

3.12. REGULATORY AFFAIRS

Included in Regulatory Affairs are compensation and benefits costs related to overseeing the implementation of OEB-approved distribution rates and charges, preparation of distribution rate applications, regulatory and compliance reporting, policy research and analysis, public policy engagement, load forecasting, cost allocation, and rate design. In addition, OEB fees represent approximately 50% of total program costs.

In 2021, there is an increase of $0.7M. This is attributable, in part, to an increase in Regulatory Memberships to reflect the actual costs of updated OEB cost assessments, as the previously-used variance account will no longer apply during the 2021-2025 rate term (see section 2.4 above). In addition, the preparation and adjudication costs associated with this Application will start being expensed in 2021.

Overall, the CAGR for the Regulatory Affairs program over the 2016-2021 timeframe is expected to be 8.1%.

3.13. SAFETY, ENVIRONMENT AND BUSINESS CONTINUITY

Included in the Safety, Environment and Business Continuity program are costs pertaining to Distribution Environmental Programs and Flame Resistant Clothing for employees. Outside services for environmental remediation make up approximately 30% of the annual budget.

The program experienced large increases over the past few years, with a CAGR of 12.7%. This was driven by the following:

- Increased environmental remediation costs due to proactive inspections of assets using infrared scanning. These inspections identify small spills/leaks before they cause greater impacts and potentially affect distribution system reliability. The number of events reported from 2015-2018 increased from 96 to 131. The associated cost increases of $0.4M in 2018 and $0.5M in 2019 are temporary increases and are expected to decrease in 2020 by $0.8M when Hydro Ottawa's infrared scanning cycle is completed. After accounting for 2019 actuals, the associated cost increase for 2019 has been updated to $0.6M. This is expected to decrease in 2020 by $0.9M, when Hydro Ottawa's infrared scanning cycle is completed.
- Costs of approximately $1.0M associated with the provision of Flame Resistant Clothing, as outlined in the collective agreement with the IBEW, were previously decentralized under other programs. In 2018, these costs were centralized and moved into this program in order to provide greater management oversight and control, and to assist with the administration of the online ordering system.

Figure 13 – AS ORIGINALLY SUBMITTED – Number of Spills

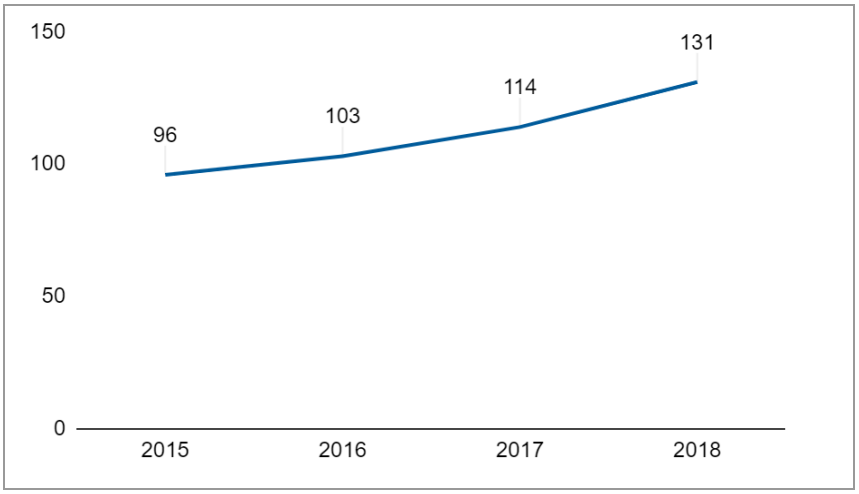
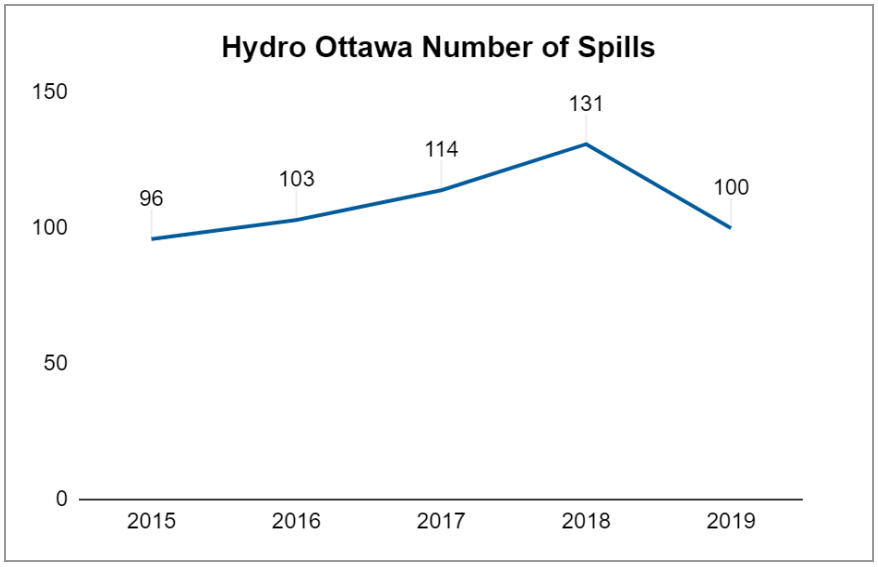


Figure 13 – UPDATED FOR 2019 ACTUALS – Number of Spills



3.14. SUPPLY CHAIN

Included in the Supply Chain program are costs pertaining to the delivery of procurement and warehouse functions. This is achieved through the administration of procurement policies,

procurement of all products and services acquired by the utility, and management of the inventory and equipment used to construct and maintain Hydro Ottawa's distribution assets.

Over the 2016-2021 period, CAGR for this program is expected to be 3.2%. There are no variances above the materiality threshold.

UPDATED - Appendix 2-JB
Recoverable OM&A Cost Driver Table[1,3]

OM&A ($Millions)	Last Rebasing Year (2016 Actuals)	2017 Actuals	2018 Actuals	2019 Actuals	2020 Bridge Year	2021 Test Year
Reporting Basis	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Opening Balance[2]	$ 83.1	$ 82.6	$ 82.2	$ 86.8	$ 83.1	$ 91.9
Labour Compensation and Benefits		$ (0.2)	$ 3.3	$ (1.9)	$ 4.1	$ 2.0
Proactive and Reactive Distribution System Maintenance		$ 0.1	$ 0.5	$ -	$ 0.4	$ 0.3
Facilities, Insurance, and Fuel		$ 0.1	$ 0.3	$ 3.4	$ (2.0)	$ 0.2
OEB Fees and CDM Allocation		$ (0.1)	$ -	$ 0.2	$ 0.2	$ 0.7
Contact Center, Postage, Bad Debt		$ 0.3	$ (1.0)	$ (0.7)	$ 0.8	$ -
Dark Fiber fees		$ (0.1)	$ -	$ 0.1	$ 1.0	$ (1.7)
Technology		$ 0.8	$ 0.4	$ 0.5	$ 1.3	$ 0.9
SLA Cost Reclassification		$ -	$ -	$ (3.2)	$ (0.7)	$ (0.1)
Others	$ (0.5)	$ (1.3)	$ 1.1	$ (2.1)	$ 3.7	$ (0.3)
Closing Balance[2]	$ 82.6	$ 82.2	$ 86.8	$ 83.1	$ 91.9	$ 93.9

Notes:

1 For each year, a detailed explanation for each cost driver and associated amount is requied in Exhibit 4.

2 Opening Balance for "Last Rebasing Year" (cell B15) should be equal to the OEB-Approved amount. For purposes of assessing incremental cost drivers, the closing balance for each year becomes the opening balance for the next year.

3 If it has been more than four years since the applicant last filed a cost of service application, additional years of historical actuals should be incorporated into the table, as necessary, to go back to the last cost of service application. If the applicant last filed a cost of service application less than four years ago, a minimum of three years of actual information is required.

2020
2016

UPDATED WORKFORCE STAFFING AND COMPENSATION

1. INTRODUCTION

This Schedule, in tandem with Attachments A through E, provides detailed information on Hydro Ottawa's strategies and approach to ensuring operational capacity and capability to safely and efficiently:

- maintain and enhance the reliability of the electricity distribution system;
- execute its comprehensive asset management plan and planned infrastructure renewal;
- respond to increasing legislative and regulatory requirements;
- address customer growth and nurture an evolving customer relationship;
- continue to manage the effects of its aging workforce; and
- leverage technological advancements, and an ever-changing business landscape.

2. WORKFORCE PLANNING AND STAFFING

In its 2016-2020 Custom Incentive Rate-Setting application, Hydro Ottawa outlined how it would attract and retain a highly skilled, properly trained, and knowledgeable workforce.[1] More specifically, Hydro Ottawa reviewed the need to replenish its trades workforce and the proactive strategies it would employ to mitigate the ongoing risk of an insufficient talent pipeline. By leveraging workforce planning, integrated within its Talent Management Framework, Hydro Ottawa's workforce modeling forecasted that over the 2015-2020 period there would be a requirement for 65 trades hires.[2] The actual hiring from 2015-2019, alongside planned hiring for 2020, will result in exactly 65 trades hires over this period.

As outlined in Attachment 4-1-5(B): Workforce Planning Strategy, as Hydro Ottawa moves from 2021 to 2025, its workforce planning is focused on sustaining rather than replenishing its trades

[1] Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).
[2] Workforce modeling is primarily used at Hydro Ottawa to forecast the supply of labour in relation to operational demand for resourcing.

workforce, replacing mid-level experienced front-line supervisors/managers and responding to the changing skill sets required in light of the technological innovations and digital transformation in the electricity sector.

Through its workforce modeling, Hydro Ottawa continues to identify gaps in its trades workforce for the 2021-2025 period. However, these projections are substantially less than those of the 2015-2020 period. This is, generally, as a result of demographics, access to contracted services, and a focus on more efficient and innovative ways of working. Of significance during this period will be the focus on replenishing the Hydro Ottawa people leader pipeline due to retirements, through succession planning, strategic external hiring, and leadership and management initiatives. Furthermore, during this time, the emphasis on the demand for new skill sets – and in some cases the creation of entirely new roles as a result of technological innovations and digital transformation – will require diverse responses in the form of training, hiring, and contracting for those skill sets.

To ensure that planned apprenticeship investments and hiring remain prudent, and to limit overall headcount increases within the organization from 2021-2025, Hydro Ottawa continues to base forecasted hiring on the following principles:

- Increase overall productivity to ensure greater availability of productive time, while also establishing initiatives to gain efficiencies that increase the quality of the time worked;
- Hire apprentices and fill other positions by using vacancies as they become available, including the redistribution of vacancies from support functions to the trades;
- Where available in the labour market, attract and hire journeypersons to fill vacancies, with the aim of reducing the overall required training investment in apprenticeships and leverage qualified resources with a shorter lead time to achieve maximum productivity;
- Balance hiring with the appropriate use of overtime to supplement labour gaps, and continue to leverage contracted services where cost-effective and available to meet demand; and

- Increase the efficiency of work through innovative practices and the introduction of new technologies and automation.

3. MAINTAINING A SAFE WORK ENVIRONMENT

As outlined in Attachment 4-1-5(D): Health, Safety and Environment Compliance and Sustainability, Hydro Ottawa has adopted a best practice, continual improvement approach in relation to the following: (i) meeting legislative and regulatory requirements in the areas of health, safety, and environment; and (ii) maintaining standards of performance relative to risks associated with its ongoing business activities. Since 2008, Hydro Ottawa has successfully maintained registration of its integrated health, safety, and environmental management system to the International Organization for Standardization ("ISO") 14001 and the Occupational Health and Safety Assessment Series ("OHSAS") 18001. The Occupational Health, Safety and Environmental ("OHSE") management system has been updated to meet the requirements of the new ISO environmental standard in 2018, and preparations are underway to transition from the current OHSAS 18001 health and safety specifications to the new ISO 45001 health and safety standard in 2020.

With its younger workforce, as described in Attachment 4-1-5(B): Workforce Planning Strategy, Hydro Ottawa has increased the number of safety inspections, jobsite coaching, pre-construction meetings, and independent reviews of work in recent years, in order to mitigate safety risks.

Additionally, Hydro Ottawa ensures robust due diligence in relation to contractor safety and performance through a partnership with a contractor management firm, which carries out comprehensive and more cost-effective contractor pre-qualification and compliance monitoring.

4. COMPENSATION AND HEADCOUNT

Hydro Ottawa's compensation philosophy and associated compensation components are premised on attracting and retaining a highly skilled workforce and on supporting a

performance-driven work culture. This is achieved by appropriately and fairly rewarding performance in the achievement of the objectives identified in the utility's Strategic Direction, and in accordance with position competencies and the organization's values, while at the same time controlling total compensation costs. More details on Hydro Ottawa's approach to total compensation – including salaries, incentive-based pay for senior employees only, insured benefit plans, pension plan, premiums and allowances – are outlined in UPDATED Attachment 4-1-5(A): Employee Compensation Strategy, as well as in Attachment 4-1-5(E): Actuarial Report regarding the utility's limited future benefit costs.

As provided in Attachment 1-1-12(G): Compensation Benchmarking Study, Hydro Ottawa engaged Mercer Canada to conduct a benchmarking study of its total compensation, including salaries, target total cash compensation, and benefit and pension contributions against both general and industry (utility) market comparators, where available. Jobs that are core to the operational business and key professional jobs were all found to be very well aligned with the market comparators. Some positions, generally unionized support roles, were found to be comparable to the utility market comparators although higher than the general industry market comparators.

The study also found that Hydro Ottawa's employer paid benefits, which include insurance and wellness benefits and pension contributions, are generally aligned with what is typically seen in the market – and more specifically, in the Ontario Public Sector.

Since 2016, Hydro Ottawa's total number of permanent full-time equivalents ("FTEs") has remained relatively static, with the same forecasted to 2021. Management permanent FTEs are decreasing and non-management permanent FTEs are slightly increasing. This has been realized while simultaneously replenishing and continuing to sustain the trades workforce, by using vacancies as they become available and focusing on productivity and efficiency and effectiveness of operations.

Hydro Ottawa has been increasing its usage of a temporary workforce, which provides it with more flexibility to address seasonal and other workloads, and can be more easily adjusted upwards or downwards, as required. Hydro Ottaway's forecast to 2021 continues this approach, allowing the utility to contain compensation costs.

As a result of prudently managing FTEs and compensation costs, Hydro Ottawa's actual and forecasted annual average increase to total compensation is ~~2.8 %~~ 2.5% from 2016-2021.

UPDATED Attachment 4-1-5(C): OEB Appendix 2-K - Employee Costs summarizes Hydro Ottawa's historical and forecasted FTEs and compensation costs, and indicates the following:

- Between 2016 and 2018, there was a decrease in FTEs. The 2019-2021 forecast shows an initial increase in the total number of FTEs between 2018 and 2019, and then a decrease in the total number of FTEs out to 2021; ~~and~~
- The 2019 actuals confirm a smaller increase in the total number of FTEs between 2018 and 2019, with the updated forecast showing an increase for 2020, and then a decrease in the total number of FTEs in 2021; and
- Total compensation costs are expected to increase on average by ~~2.8%~~ 2.5% per annum, from approximately ~~$67.4M~~ $68.4M in 2016 to $77.6M in 2021.

UPDATED EMPLOYEE COMPENSATION STRATEGY

1. INTRODUCTION

Hydro Ottawa's compensation philosophy and associated compensation components are premised on attracting and retaining a highly skilled workforce and on supporting a performance-driven work culture. This is achieved by appropriately and fairly rewarding performance in the achievement of the objectives identified in the utility's Strategic Direction, and in accordance with position competencies and the utility's values, while at the same time controlling total compensation costs.

2. TOTAL COMPENSATION

Hydro Ottawa's approach to total compensation aligns with the utility's compensation philosophy and consists of the following major components which reinforce the total value proposition: salaries, incentive-based pay for senior employees only, insured benefit plans, pension plan, premiums, and allowances.

2.1. COMPENSATION BENCHMARKING STUDY

As provided in Attachment 1-1-12(G), Hydro Ottawa engaged Mercer Canada to conduct a benchmarking study of the utility's total compensation, including salaries, target total cash compensation, and benefit and pension contributions against both general and industry (utility) market comparators, where available. Competitiveness of salaries and target total cash compensation was defined as being within +/- 10% of P50 of each market comparator.[1]

The study reviewed 15 jobs, including those core to the business, as well as technical, professional, and para-professional roles that support the business. The jobs included in the study are representative of both categories of positions/employees (management and non-management), which are further defined in section 3 below. Five management jobs and 10 non-management jobs at different levels of each category were reviewed.

[1] "P50" refers to the market median job rate.

The jobs that are core to the operational business (e.g. Manager, Distribution Operations; Supervisor, Distribution Operations; Professional Engineer; and the trades jobs of Power Line Technician and System Operator) were all found to be very well aligned with the utility market comparators. In the case of the Professional Engineer job, there was also alignment with the general industry market comparators.

Some jobs, generally unionized support roles, were found to be higher than the general industry market comparators, but in most cases within +/-10% of P50 of the utility market comparators.

Key professional roles such as Senior Procurement Agents, Management Accountants, and Network Administrators were also found to be very well aligned with both the utility and general industry market comparators.

With respect to employer paid benefits, which include insurance and wellness benefits and pension contributions, the study found that these offerings at Hydro Ottawa are generally aligned with what is typically seen in the market for non-executive employees. Specifically, when compared to the Ontario Public Sector, where such benefits account for 20-22% of base salary, Hydro Ottawa's benefits were found to be within 19-21% of base salary.

2.2. MERIT INCREASES

The salary structure for executive, management, and non-union employees consists of various salary scales representing positions of similar scope and responsibility. A formalized point factor system is in place to evaluate positions and determine the salary scale in which they are placed. This ensures internal equity. Salary scales are reviewed every four years to ensure competitiveness.

Employees are paid an annual salary within the salary scale based on education and experience. Annual increases to salaries, within the salary scales, are merit-based and determined by performance and contributions in the previous year. A robust performance

management system is in place for this purpose. An overall performance rating is established and a merit increase associated with the rating is provided. Performance and contributions are directly tied to Hydro Ottawa's corporate performance scorecard, ensuring that the focus of this workforce segment is aligned to the advancement of the utility's Strategic Direction.

In determining the appropriate merit increase associated with each performance rating, Hydro Ottawa reviews the national, provincial, and local salary projections of major compensation consulting firms, including those projections for the utility and broader public sectors, as well as consumer price indices.

2.3. INCENTIVE-BASED PAY

Since 2008, only senior management employees have been eligible for an annual incentive-based pay as a component of their total cash compensation, which is expressed as a percentage of annual salary. These employees have a direct line-of-sight to the success of the utility's Strategic Direction. On average, 39 employees are eligible for incentive-based pay in any given year. After accounting for 2019 actuals, the number of employees eligible for incentive-based pay in any given year has been updated to an average of 40.

Incentive-based pay is derived from the achievement of corporate, divisional, and individual priorities in the previous year, both financial and non-financial, and qualitative and quantitative. These priorities are established each year and approved by the Board of Directors. Non-financial priorities are designed to achieve continuous improvement in relation to Hydro Ottawa's Strategic Direction. They include a number of strategic objectives focused on customer service, operational and organizational efficiency and effectiveness, and service reliability.

Table 1 below demonstrates the variability in this component of total cash compensation as it relates to the achievement of priorities.

Table 1 – AS ORIGINALLY SUBMITTED – Average Annual Incentive-Based Pay

	2016 Historical	2017 Historical	2018 Historical	3-Year Average
Number of Employees	39	38	41	39
Average Amount	$15,220	$17,139	$15,897	$16,085

Table 1 – UPDATED FOR 2019 ACTUALS – Average Annual Incentive-Based Pay

	2017 Historical	2018 Historical	2019 Historical	3-Year Average
Number of Employees	38	41	41	40
Average Amount	$17,139	$15,897	$16,151	$16,396

2.4. COLLECTIVE AGREEMENT

The International Brotherhood of Electrical Workers ("IBEW"), Local 636 represents Hydro Ottawa's unionized employees. This includes the company's trades, technical, clerical, and administrative employees.

The current collective agreement is in effect from April 1, 2017 until March 31, 2021. The collective agreement provides for negotiated wage increases and employee step progressions. Negotiated wage increases are 2.0% for 2017, 2.10% for 2018, 2.10% for 2019, and 2.2% for 2020. The wage increases are on average 22% lower than the increases from the previous four-year collective agreement. Nominal increases to certain premiums and allowances were also negotiated, and spread-out over the collective agreement's four-year term.

A number of labour efficiencies were achieved during this most recent round of collective bargaining, with some directly and indirectly related to total compensation. These include the expansion of normal hours of operation, reduction in hours of rest time when employees work overnight, and a simplified process for the re-assignment of employees to a different work location for training purposes.

2.5. PENSION PLAN

Hydro Ottawa employees are part of the Ontario Municipal Employees Retirement System ("OMERS"), a multi-employer, contributory, defined-benefit pension plan established by the Province for employees of municipalities, local boards, and school boards in Ontario. Pension benefits are determined by a formula based on the highest consecutive five-year average of contributory earnings and years of service. Both participating employers and participating employees are required to make equal contributions to the plan based on the participating employees' contributory earnings.

Employers and employees that are members of the OMERS pension plan contribute a lesser percentage on earnings received up to the annual Yearly Maximum Pensionable Earnings ("YMPE"), and a higher percentage on earnings above the YMPE. The YMPE is equal to the Canada Pension Plan ("CPP") earnings limit, as the OMERS pension plan is designed to work together with the CPP to provide a stable retirement income.

Table 2 below summarizes Hydro Ottawa's historical and forecasted contribution rates to OMERS from 2016-2021.

Table 2 – AS ORIGINALLY SUBMITTED – OMERS Contribution Rates (2016-2021)

	YMPE	Below YMPE	Above YMPE
2016 Historical	$54,900	9.0%	14.6%
2017 Historical	$55,300	9.0%	14.6%
2018 Historical	$55,900	9.0%	14.6%
2019 Bridge	$57,400	9.0%	14.6%
2020 Bridge	$60,100	9.0%	14.6%
2021 Test	$60,900	9.0%	14.6%

Table 2 – UPDATED FOR 2019 ACTUALS – OMERS Contribution Rates (2016-2021)

	YMPE	Below YMPE	Above YMPE
2016 Historical	$54,900	9.0%	14.6%
2017 Historical	$55,300	9.0%	14.6%
2018 Historical	$55,900	9.0%	14.6%
2019 Historical	$57,400	9.0%	14.6%
2020 Bridge	$60,100	9.0%	14.6%
2021 Test	$60,900	9.0%	14.6%

In an effort to reduce the funding deficit after the 2008 global economic downturn, OMERS contribution rates increased for both the employer and employee portions in 2012 and 2013. Due to better returns in 2013, contribution rates remained unchanged from 2014-2019. OMERS has recently confirmed that there will be no changes to the contribution rates for 2020. Hydro Ottawa has also forecasted no change in contribution rates for 2021. By 2022, OMERS contribution rates will have remained static for eight years.

For 2022 onwards, Hydro Ottawa, with the assistance of actuaries from Mercer Canada, has forecasted a 0.65% contribution rate increase, both below and above the annual YMPE, for both the employer and employee portions. This forecast is based on the OMERS Sponsors Corporation's Funding Management Strategy and the plan's funded ratios, as of December 31, 2018.

2.6. INSURED BENEFITS

Hydro Ottawa's insured benefit plans provide employees with income security and protection from catastrophic and life events. Insured benefits coverage is provided to active full-time employees in the following areas:

- Health, including vision care, prescription drugs, and paramedical services;
- Dental, including major dental and orthodontics services;
- Long-term disability benefits;
- Short-term disability benefits; and
- Life insurance.

As part of the most recent round of collective bargaining in 2017, no changes were made to the provisions of the insured benefit plans for the four-year term of the collective agreement. As a result, all provisions of the insured benefit plans have remained static for all employee groups during this time period.

Hydro Ottawa continues to benefit from its current cost containment measures such as reasonable and customary limitations and generic substitution. Most recently, a drug risk management program was introduced whereby new or existing drugs with new treatment indications are reviewed by the benefit plan insurer to ensure appropriateness.

For 2020 onwards, Hydro Ottawa has forecasted increases in benefit costs by using the 2019 benefit costs as a base and applying assumptions regarding anticipated rate increases by benefit. These assumptions are based on Mercer's 2019 Anticipated Benefit Costs report (dated October 2018) and the expected salary increase as per the current collective agreement with the IBEW.

2.7. POST-RETIREMENT BENEFITS

Hydro Ottawa's post-retirement benefits consist of life insurance and a small retirement grant for eligible employees primarily linked to positive attendance at work.

Hydro Ottawa completes a full actuarial valuation of the future value of the post-retirement benefits every three years, which is consistent with industry standards. In the interim years, an extrapolation is completed to determine if there has been a material change from the previous year.

The most recent actuarial valuation was performed as at December 31, 2016, with an actuarial extrapolation performed as at December 31, 2018 by Eckler Consultants & Actuaries.[2] The valuation determined that the accrued post-retirement life insurance obligation decreased from 2017-2018, which is primarily attributable to an increase in the discount rate used in 2018. The accrued retirement grant amount decreased from 2017-2018, which is attributable to the retirement of employees in 2017 that were paid their retirement grant, thereby reducing the utility's future obligations.

Hydro Ottawa has taken steps to contain its future benefit costs by limiting the type, scope, and applicability of post-retirement benefits.

2.8. REGULATORY TREATMENT OF PENSION AND OTHER POST-EMPLOYMENT BENEFITS

On September 14, 2017, the OEB issued its final report on the regulatory treatment of pension and other post-employment benefit ("OPEB") costs establishing the use of accrual accounting as the default method on which to set rates for pension and other post-employment benefit amounts in cost-based applications.[3] Moreover, this report also provides for the establishment of a variance account to track the difference between the forecasted accrual amount in rates and

[2] Please see Attachment 4-1-5(E): Actuarial Report.
[3] Ontario Energy Board, *Report of the Board: Regulatory Treatment of Pension and Other Post-Employment Benefits (OPEBs) Costs*, EB-2015-0040 (September 14, 2007).

actual cash payment(s) made, with an asymmetric carrying charge in favour of ratepayers applied to the differential.

Hydro Ottawa provides pension benefits for its employees through the OMERS Fund (the "Fund"). Although the plan is a defined benefit plan, sufficient information is not available to Hydro Ottawa to account for it as such because it is not possible to attribute the fund assets and liabilities between the various employers who contribute to the Fund. As a result, Hydro Ottawa accounts for the plan as a defined contribution plan, and contributions payable as a result of employee service are expensed as incurred similar to short-term employee benefits.

Hydro Ottawa also provides other post-employment benefits such as life insurance and a retirement grant. These plans provide benefits to certain employees when they are no longer providing active service. Other post-employment benefits are recorded on an accrual basis. The accrued benefit obligation and current service costs are calculated using the projected benefit method prorated on service and based on assumptions that reflect Hydro Ottawa's best estimates. Hydro Ottawa tracks the difference between the forecast accrual amount in rates and actual cash payments in a variance account as set out in the OEB report.

Table 3 below outlines Hydro Ottawa's 2016-2021 Pension and OPEB amounts.

Table 3 – AS ORIGINALLY SUBMITTED – Pension and OPEB Amounts ($'000s)

Pension and OPEB	Historical			Bridge		Test
	2016	2017	2018	2019	2020	2021
Pension cost[4]	$5,389	$5,530	$5,741	$6,136	$6,168	$6,355
Future employee benefits cost[5]	$2,240	$832	$736	$786	$800	$816
Cash paid[6]	$593	$634	$649	n/a	n/a	n/a

Table 3 – UPDATED FOR 2019 ACTUALS – Pension and OPEB Amounts ($'000s)

Pension and OPEB[7]	Historical				Bridge	Test
	2016	2017	2018	2019	2020	2021
Pension cost	$5,389	$5,530	$5,741	$5,720	$6,168	$6,355
Future employee benefits cost	$2,240	$832	$736	$1,232	$800	$816
Cash paid	$593	$634	$649	$717	n/a	n/a

3. HEADCOUNT

Hydro Ottawa has categorized employees/positions into two groups in calculating the total full-time equivalents ("FTE"). These groups are comprised of full-time permanent equivalents and temporary equivalents (which can be full-time or part-time), defined as follows:[8]

[4] As noted above, pension contributions are expensed as incurred. With respect to the pension cost that is capitalized, this along with other employee benefits as described in this Schedule, are included on the capitalized labour line in UPDATED Attachment 2-4-5(A): OEB Appendix 2-D - Overhead Expense. Hydro Ottawa uses a blended labour rate and burden rates to do this allocation and therefore does not track each type of compensation-related expense charged to capital separately. The other capitalized OM&A amounts (Supply Chain, Supervisor, Engineering and Fleet) also include compensation, and as such, pension costs are also included on these lines.

[5] As described above, Hydro Ottawa's other post-employment benefits are limited to life insurance and a retirement grant. The amount shown in Table 3 is the expense amount included in OM&A. Note that these costs are not included in the capitalized OM&A amounts discussed above, and therefore none of these amounts are capitalized. Although, not considering post-retirement, the non-vested sick leave as described in UPDATED Exhibit 4-1-4: Operations, Maintenance and Administration Cost Drivers and Program Variance Analysis is also grouped in this analysis.

[6] This represents the cash payments for other post-employment benefits as included on Hydro Ottawa's tax returns.

[7] Footnotes 4-6 likewise apply as descriptions for this updated version of the table.

[8] Summer students and co-op students are not included, as these short-term hires are viewed as developmental in nature.

- Management – includes executives, directors, managers, supervisors, and senior professionals such as professional engineers.
- Non-Management – includes non-unionized professionals, such as engineers-in-training and executive assistants, and all employees who are represented by the IBEW.

The tables below summarize Hydro Ottawa's actual FTEs for 2016, 2017, 2018, along with the forecasted FTEs for 2019, 2020 and 2021. Hydro Ottawa's FTE count is determined using standard methodology. For the 2016-2018 actuals, FTE is a calculated value derived from the total regular hours paid each year divided by the regular hours of work scheduled each year by a single employee in that group. For the 2019-2021 forecasts, FTE is calculated as all budgeted positions, adjusted for part-year budgeting for new positions. These tables have been revised due to a systemic error in spreadsheet templates which affected 2016, 2017, and 2018 actual FTE, Temporary Equivalents, and Compensation amounts.

After accounting for 2019 actuals, the updated versions of the tables below summarize Hydro Ottawa's actual FTEs for 2016, 2017, 2018, and 2019, along with the forecasted FTEs for 2020 and 2021. For the 2016-2019 actuals, FTE is a calculated value derived from the total regular hours paid each year divided by the regular hours of work scheduled each year by a single employee in that group. For the 2020-2021 forecasts, FTE is calculated as all budgeted positions, adjusted for part-year budgeting for new positions.

3.1. FULL-TIME PERMANENT EQUIVALENTS

Table 4 below illustrates Hydro Ottawa's forecasted plan to stabilize its total number of permanent full-time employees/positions.

Table 4 – AS ORIGINALLY SUBMITTED – Number of Full-Time Permanent Equivalents

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	122.6	124.4	118.7	116.2	118.1	118.9
Non-Management	464.2	461.7	460.6	470.4	467.5	468.3
TOTAL	**586.8**	**586.1**	**579.3**	**586.6**	**585.6**	**587.2**

Table 4 – AS REVISED – Number of Full-Time Permanent Equivalents

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	122.6	124.4	118.7	116.2	118.1	118.9
Non-Management	464.7	462.3	461.1	470.4	467.5	468.3
TOTAL	**587.3**	**586.7**	**579.8**	**586.6**	**585.6**	**587.2**

Table 4 – UPDATED FOR 2019 ACTUALS – Number of Full-Time Permanent Equivalents

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	122.6	124.4	118.7	120.6	118.1	118.9
Non-Management	464.7	462.3	461.1	461.4	467.5	468.3
TOTAL	**587.3**	**586.7**	**579.8**	**582.0**	**585.6**	**587.2**

Since 2016, Hydro Ottawa's total number of permanent FTEs has remained relatively static with the same forecasted to 2021. Management permanent FTEs are decreasing and non-management permanent FTEs are slightly increasing. This has been realized while at the same time replenishing and continuing to sustain the trades workforce in accordance with Hydro Ottawa's Workforce Planning Strategy (which is appended to this Application as Attachment 4-1-5(B)). This has entailed using vacancies as they become available and focusing on productivity and efficiency and effectiveness of operations.

The slight increase in management FTEs reflected in the 2019 actuals is attributed to the filling of vacant positions, while Non-Management FTEs remained the same.

3.2. TEMPORARY EQUIVALENTS

Table 5 summarizes the number of actual and forecasted temporary equivalents from 2016-2021, which includes both temporary full-time and part-time employees. Hydro Ottawa has been increasing its usage of a temporary workforce, which provides the utility with more flexibility to address seasonal and other workloads, and can be more easily adjusted upwards or downwards as required. Hydro Ottawa's 2019, 2020 and 2021 forecast continues this approach, allowing the utility to contain compensation costs. This approach continues when accounting for 2019 actuals, as shown in the updated version of Table 5 below.

Table 5 – AS ORIGINALLY SUBMITTED – Number of Temporary Equivalents (Full-Time or Part-Time)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	1.2	1.9	1.4	3.6	5.5	3.0
Non-Management	17.7	15	18	35.0	31.4	25.4
TOTAL	**18.9**	**16.9**	**19.4**	**38.6**	**36.9**	**28.4**

Table 5 – AS REVISED – Number of Temporary Equivalents (Full-Time or Part-Time)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	3.6	3.3	2.1	3.6	5.5	3.0
Non-Management	20.1	21.6	22.8	35.0	31.4	25.4
TOTAL	**23.7**	**24.9**	**24.9**	**38.6**	**36.9**	**28.4**

Table 5 – UPDATED FOR 2019 ACTUALS – Number of Temporary Equivalents (Full-Time or Part-Time)

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	3.6	3.3	2.1	0.7	5.5	3.0
Non-Management	20.1	21.6	22.8	28.1	31.4	25.4
TOTAL	**23.7**	**24.9**	**24.9**	**28.8**	**36.9**	**28.4**

3.3. FULL-TIME PERMANENT AND TEMPORARY EQUIVALENTS

Table 6 provides the total number of actual and forecasted permanent and temporary FTEs, and demonstrates Hydro Ottawa's approach to continuing to manage its workforce and compensation costs prudently.

Table 6 – AS ORIGINALLY SUBMITTED – Number of Full-Time Equivalents (Permanent and Temporary)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	123.8	126.3	120.1	119.8	123.6	121.9
Non-Management	481.9	476.7	478.6	505.4	498.9	493.7
TOTAL	**605.7**	**603.0**	**598.7**	**625.2**	**622.5**	**615.6**

Table 6 – AS REVISED – Number of Full-Time Equivalents (Permanent and Temporary)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	126.3	127.8	120.8	119.8	123.6	121.9
Non-Management	484.8	483.9	483.9	505.4	498.9	493.7
TOTAL	**611.1**	**611.7**	**604.7**	**625.2**	**622.5**	**615.6**

Table 6 – UPDATED FOR 2019 ACTUALS – Number of Full-Time Equivalents (Permanent and Temporary)

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	126.3	127.8	120.8	121.3	123.6	121.9
Non-Management	484.8	483.9	483.9	489.4	498.9	493.7
TOTAL	**611.1**	**611.7**	**604.7**	**610.7**	**622.5**	**615.6**

Between 2016 and 2018, there was a decrease in the total number of FTEs predominantly as a result of a decrease in management FTEs. The 2019-2021 forecast shows an initial increase in

the total number of FTEs between 2018 and 2019, attributable mainly to an increase in the usage of temporary employees as well as a slight increase in permanent non-management FTEs. The total number of FTEs then decreases out to 2021.

The 2019 actuals confirm a smaller increase in the total number of FTEs over 2018. An increase in the total number of FTEs is forecasted for 2020 due mainly to increases in non-management and temporary FTEs, with a subsequent decrease forecasted for 2021.

4. TOTAL COMPENSATION

Table 7 below summarizes Hydro Ottawa's historical and forecasted total compensation including salary, wages, and benefits from 2016-2021. Hydro Ottawa's approach to prudently managing FTEs and compensation costs, as outlined throughout this Attachment, has resulted in an actual and forecasted annual average increase to total compensation of ~~2.8%~~ 2.5% from 2016-2021.

The original version of Table 7 has been revised due to a systemic error in spreadsheet templates. In addition, Table 7 has been updated to account for 2019 actuals.

Table 7 – AS ORIGINALLY SUBMITTED – Total Compensation (Salary, Wages, & Benefits)[9]

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	$17,665,972	$18,043,105	$17,726,238	$17,017,160	$18,287,415	$18,623,000
Non-Management	$49,753,411	$51,285,615	$53,620,146	$56,282,382	$57,262,789	$58,950,460
TOTAL	**$67,419,383**	**$69,328,720**	**$71,346,384**	**$73,299,542**	**$75,550,204**	**$77,573,460**

Table 7 – AS REVISED – Total Compensation (Salary, Wages, & Benefits)

	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	2021 Test
Management	$18,065,397	$18,337,465	$17,833,632	$17,017,160	$18,287,415	$18,623,000
Non-Management	$50,322,168	$52,258,971	$54,375,254	$56,282,382	$57,262,789	$58,950,460
TOTAL	**$68,387,565**	**$70,596,436**	**$72,208,886**	**$73,299,542**	**$75,550,204**	**$77,573,460**

Table 7 – UPDATED FOR 2019 ACTUALS – Total Compensation (Salary, Wages, & Benefits)

	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	2021 Test
Management	$18,065,397	$18,337,465	$17,833,632	$17,871,017	$18,287,415	$18,623,000
Non-Management	$50,322,168	$52,258,971	$53,375,254	$54,331,711	$57,262,789	$58,950,460
TOTAL	**$68,387,565**	**$70,596,436**	**$72,208,886**	**$72,202,728**	**$75,550,204**	**$77,573,460**

4.1. 2016-2018 ACTUALS

The total compensation increase from 2016-2018 is largely due to step increases and annual negotiated salary increases for unionized employees and annual merit increases for non-union employees. It is also attributable to an increase in overtime costs in 2018, in connection with

[9] Hydro Ottawa has completed UPDATED OEB Appendix 2-K - Employee Costs, which is included in this Application as Attachment 4-1-5(C). This footnote likewise applies to the revised and updated versions of Table 7.

restoration activities following an ice storm in April, a wind storm in May, and tornadoes, high winds, and thunderstorms in September – all of which caused significant damage to the electricity grid. As noted in Table 4 above, given the decrease in management FTEs during this period, compensation for that group also decreased.

4.2. 2019-2021 FORECAST

Hydro Ottawa's total compensation forecast for 2019-2021 shows an average annual increase of ~~2.8%~~ 2.5% over the three-year period. This trending is primarily based on the step increases and annual negotiated salary increases for unionized employees, together with the annual merit increase for management and non-union employees, as well as the forecasted increase in benefit costs. Total compensation costs have additionally been contained by the forecast of an overall flat number of permanent FTEs to 2021, supplemented by temporary FTEs, as required.

Actual total compensation for 2019 over 2018 remained relatively flat, showing a slight decrease. This is attributed to both a significant decrease in overtime and the ongoing use of a temporary workforce.

TO BE UPDATED AT THE DRAFT RATE ORDER STAGE

UPDATED - Appendix 2-K
Employee Costs

	Last Rebasing Year (2016 OEB Approved)	Last Rebasing Year (2016 Actuals)*	2017 Actuals*	2018 Actuals*	2019 Actuals	2020 Bridge Year	2021 Test Year
Number of Employees (FTEs including Part-Time)1							
Management (including executive)	137.5	126.3	127.8	120.8	121.3	123.6	121.9
Non-Management (union and non-union)	485.2	484.8	483.9	483.9	489.4	498.9	493.7
Total	622.7	611.1	611.7	604.7	610.7	622.5	615.6
Total Salary and Wages including Overtime and Incentive Pay							
Management (including executive)	$ 15,648,115	$ 14,750,453	$ 14,853,666	$ 14,403,208	$ 14,372,286	$ 14,528,292	$ 14,687,744
Non-Management (union and non-union)	$ 42,110,915	$ 40,801,567	$ 42,319,931	$ 43,996,434	$ 43,696,400	$ 45,426,991	$ 46,496,513
Total	$ 57,759,030	$ 55,552,020	$ 57,173,597	$ 58,399,642	$ 58,068,686	$ 59,955,283	$ 61,184,257
Total Benefits (Current + Accrued)							
Management (including executive)	$ 3,954,359	$ 3,314,944	$ 3,483,799	$ 3,430,424	$ 3,498,731	$ 3,759,123	$ 3,935,256
Non-Management (union and non-union)	$ 10,230,894	$ 9,520,601	$ 9,939,040	$ 10,378,820	$ 10,635,311	$ 11,835,798	$ 12,453,947
Total	$ 14,185,253	$ 12,835,545	$ 13,422,839	$ 13,809,244	$ 14,134,042	$ 15,594,921	$ 16,389,203
Total Compensation (Salary, Wages, & Benefits)							
Management (including executive)	$ 19,602,474	$ 18,065,397	$ 18,337,465	$ 17,833,632	$ 17,871,017	$ 18,287,415	$ 18,623,000
Non-Management (union and non-union)	$ 52,341,809	$ 50,322,168	$ 52,258,971	$ 54,375,254	$ 54,331,711	$ 57,262,789	$ 58,950,460
Total	$ 71,944,283	$ 68,387,565	$ 70,596,436	$ 72,208,886	$ 72,202,728	$ 75,550,204	$ 77,573,460

Note:

1 If an applicant wishes to use headcount, it must also file the same schedule on an FTE basis.

* As outlined in UPDATED Attachment 4-1-5(A) - Employee Compensation Strategy, revisions have been made to 2016, 2017 and 2018 actuals due to a systemic error in spreadsheet templates.

UPDATED REGULATORY COSTS

Regulatory costs for Hydro Ottawa are included in the Uniform System of Accounts ("USofA") 5655, Regulatory Expenses and 5630, Outside Services Employed.[1] A summary of Regulatory Expenses are shown in Table 1, as updated below. Please refer to UPDATED Attachment 4-2-4(A): Appendix 2-M - Regulatory Cost Schedule for further details.[2] Regulatory costs include OEB cost assessments and licence fees, intervenor and other cost awards, professional services (legal and consulting), and costs to publish public notices.

Regulatory costs are split between one-time and on-going costs. In light of the increases in total Regulatory Costs which Hydro Ottawa has seen, the budget for the 2021 Test Year is $2.3M. The main driver of the increase in on-going costs relates to the annual assessment fees paid to the OEB. Additionally, consulting costs in 2020 and 2021 are forecasted to be higher than 2019, due to external expertise that will be sought on government, OEB, and industry policy consultations that are set to impact Hydro Ottawa.

In 2016, the OEB revised its cost assessment model.[3] As part of this change, the OEB established a variance account, Account 1508 Other Regulatory Assets, Sub-account OEB Cost Assessment Variance, to capture the difference between the costs incurred as a result of the new methodology and the costs which had already been built into a utility's rates. The variance account was to be utilized until a ~~utiilty's~~ utility's rates were next rebased/reset.[4]

These revisions to the OEB's cost assessment model substantially increased Hydro Ottawa's allocation of the OEB's costs. For the OEB's April 2016 - March 2017 fiscal year, the OEB's cost allocation to the utility was $1.4M, which represented an increase of 56% over the $916K projection included in Hydro Ottawa's 2016 rebasing application.

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[1] Prior to 2019, OEB Section 30 Costs were included in Account 5620, Office Supplies and Expense.
[2] Hydro Ottawa has made an adjustment to the Appendix to include a column for 2017 actuals.
[3] Ontario Energy Board, Letter re: *Revisions to the Ontario Energy Board Cost Assessment Model* (February 9, 2016).
[4] *Ibid*, page 2.

As a result, for purposes of this Application, the OEB Cost Assessment appears as an increase in the 2021 Test Year. For additional information on the OEB Cost Assessment Variance Account, please refer to UPDATED Exhibit 9-1-3: Group 2 Accounts.

Hydro Ottawa did not request one-time costs as part of its 2016-2020 Custom Incentive Rate-Setting application.[5] Accordingly, the one-fifth amortized portion of the $0.5M one-time costs included in the 2021 Test Year are incremental. The one-time costs include external studies on core areas or topics that were commissioned to support, and in some cases guide, Hydro Ottawa's Business Plan and requested revenue requirement.[6] Additionally, the one-time costs include OEB hearing costs, intervenor costs, and legal costs set to be incurred in the adjudication of this Application. Please refer to Exhibit 4-2-3: One-Time Costs for details related to the amortized period.

The costs associated with the time spent by Hydro Ottawa's regulatory employees in preparing this Application have not been included in USofA Accounts 5655, 5630, or 5620. These costs are contained within the general operations, maintenance and administration budgets. The costs associated with the time spent in preparing this Application by personnel from other business units within the utility (such as finance, distribution asset management, treasury, human resources, customer service, information technology, etc.) are likewise not included in Accounts 5655 or 5630. Instead, these costs are contained within the respective budgets of those business units.

[5] Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).
[6] The external studies commissioned in support of this Application are listed in UPDATED Exhibit 1-1-1: Table of Contents.

Table 1 – AS ORIGINALLY SUBMITTED – Regulatory Cost Schedule (Summary)

	OEB Approved	Historical			Bridge		Test
	2016	2016	2017	2018	2019	2020	2021
Ongoing	$1,365,775	$1,251,499	$1,125,122	$1,112,169	$1,036,124	$1,255,162	$1,843,850
1/5 of Total One-Time Costs	$0	$0	$0	$0	$0	$0	$462,398
TOTAL	**$1,365,775**	**$1,251,499**	**$1,125,122**	**$1,112,169**	**$1,036,124**	**$1,255,162**	**$2,306,248**

Table 1 – UPDATED FOR 2019 ACTUALS – Regulatory Cost Schedule (Summary)

	OEB Approved	Historical				Bridge	Test
	2016	2016	2017	2018	2019	2020	2021
Ongoing	$1,365,775	$1,251,499	$1,125,122	$1,112,169	$1,143,383	$1,255,162	$1,843,850
1/5 of Total One-Time Costs	$0	$0	$0	$0	$0	$0	$462,398
TOTAL	**$1,365,775**	**$1,251,499**	**$1,125,122**	**$1,112,169**	**$1,143,383**	**$1,255,162**	**$2,306,248**

TO BE UPDATED AT THE DRAFT RATE ORDER STAGE

UPDATED - Appendix 2-M
Regulatory Cost Schedule

	Regulatory Cost Category	USoA Account	USoA Account Balance	Last Rebasing Year (2016 OEB Approved)	Last Rebasing Year (2016 Actual)	2017 Actual	2018 Actual	2019 Actual	2020 Bridge Year	Annual % Change	2021 Test Year	Annual % Change
	(A)	(B)	(C)	(D)	(E)			(F)	(G)	(H)=[(G)-(F)]/(F)	(I)	(J) = [(I)-(G)]/(G)
	Regulatory Costs (Ongoing)											
1	OEB Annual Assessment	5655		916,311	984,177	917,112	916,311	917,111	917,162	0.01%	1,500,850	63.64%
2	OEB Section 30 Costs (OEB-initiated)	5655/5620			1,573	36,783	25,949	46,713	25,000	-46.48%	30,000	20.00%
3	Expert Witness costs for regulatory matters											
4	Legal costs for regulatory matters	5655		160,711	5,150		14,554	15,608	90,000	476.62%	90,000	0.00%
5	Consultants' costs for regulatory matters	5630		16,188	119,635	28,006		8,311	75,000	802.42%	75,000	0.00%
6	Operating expenses associated with staff resources allocated to regulatory matters											
7	Operating expenses associated with other resources allocated to regulatory matters 1											
8	Other regulatory agency fees or assessments	5655		140,843	140,964	143,222	155,355	155,639	148,000	-4.91%	148,000	0.00%
9	Any other costs for regulatory matters (please define)											
10	Intervenor costs	5655		131,722								
11	Include other items in green cells, as applicable											
12												
	Regulatory Costs (One-Time)											
1	Expert Witness costs											
2	Legal costs	5655									150,000	
3	Consultants' costs	5630									1,736,990	
4	Incremental operating expenses associated with staff resources allocated to this application.											
5	Incremental operating expenses associated with other resources allocated to this application. 1											
6	Intervenor costs	5655									150,000	
7	OEB Section 30 Costs (application-related)	5655									275,000	
8	Include other items in green cells, as applicable											
9												
10												
11												
29												
30												
1	Sub-total - Ongoing Costs 2		$ -	$ 1,365,775	$ 1,251,499	$ 1,125,122	$ 1,112,169	$ 1,143,383	$ 1,255,162	9.78%	$ 1,843,850	46.90%
2	Sub-total - One-time Costs 3		$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 2,311,990	
3	Total		$ -	$ 1,365,775	$ 1,251,499	$ 1,125,122	$ 1,112,169	$ 1,143,383	$ 1,255,162	9.78%	$ 2,306,248	83.74%

Application-Related One-Time Costs	Total
Total One-Time Costs Related to Application to be Amortized over IRM Period	$ 2,311,990
1/5 of Total One-Time Costs	$ 462,398

UPDATED DEPRECIATION, AMORTIZATION, DISPOSAL

1. INTRODUCTION

In accordance with section 2.4.4 of the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications,* as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements"), this Schedule seeks to demonstrate that Hydro Ottawa's proposed levels of depreciation and amortization expenses appropriately reflect the useful lives of the utility's assets and the OEB's accounting policies.

2. ANNUAL DEPRECIATION AND AMORTIZATION

In Tables 1 and 2 below, Hydro Ottawa provides details for depreciation by asset group for the Historical Years 2016-2018, Bridge Years 2019-2020, and 2021-2025 Test Years. Both tables have been updated to account for 2019 actuals for the Historical Years 2016-2019, Bridge Year 2020, and Test Years 2021-2025.

Table 1 – AS ORIGINALLY SUBMITTED – Depreciation Expense - Historical & Bridge Years ($'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year
Land and Buildings	$867	$858	$834	$845	$862
TS Primary Above 50	$3,100	$3,094	$3,058	$3,290	$3,669
Distribution Stations	$3,447	$3,455	$3,890	$4,176	$4,451
Poles, Wires	$12,585	$14,150	$15,847	$17,683	$19,189
Line Transformers	$2,269	$2,513	$2,766	$3,008	$3,188
Services and Meters	$4,573	$5,803	$6,328	$6,587	$6,961
General Plant	$2,286	$2,240	$2,233	$3,652	$3,821
Equipment	$2,611	$3,052	$3,375	$4,069	$4,194
IT Assets	$9,207	$8,036	$10,369	$7,921	$8,230
Other Distribution Assets	$758	$724	$826	$1,230	$1,247
Sub-Total	**$41,703**	**$43,925**	**$49,526**	**$52,460**	**$55,812**
Contributions and Grants	$(1,622)	$(2,262)	$(2,950)	$(3,984)	$(5,089)
TOTAL[1]	**$40,081**	**$41,663**	**$46,576**	**$48,476**	**$50,723**

[1] Totals may not sum due to rounding.

Table 1 – UPDATED FOR 2019 ACTUALS – Depreciation Expense - Historical & Bridge Years ($'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year
Land and Buildings	$867	$858	$834	$839	$862
TS Primary Above 50	$3,100	$3,094	$3,058	$3,328	$3,669
Distribution Stations	$3,447	$3,455	$3,890	$4,130	$4,451
Poles, Wires	$12,585	$14,150	$15,847	$17,603	$19,189
Line Transformers	$2,269	$2,513	$2,766	$3,024	$3,188
Services and Meters	$4,573	$5,803	$6,328	$6,861	$6,961
General Plant	$2,286	$2,240	$2,233	$3,778	$3,821
Equipment	$2,611	$3,052	$3,375	$4,129	$4,187
IT Assets	$9,207	$8,036	$10,369	$7,757	$8,230
Other Distribution Assets	$758	$724	$826	$1,220	$1,236
Sub-Total	**$41,703**	**$43,925**	**$49,526**	**$52,667**	**$55,793**
Contributions and Grants	$(1,622)	$(2,262)	$(2,950)	$(3,767)	$(5,089)
TOTAL[2]	**$40,081**	**$41,663**	**$46,576**	**$48,900**	**$50,704**

[2] Totals may not sum due to rounding.

Table 2 – AS ORIGINALLY SUBMITTED – Depreciation Expense - Test Years ($'000s)

Asset Group	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
Land and Buildings	$878	$994	$1,055	$1,080	$1,107
TS Primary Above 50	$3,758	$4,360	$4,673	$4,811	$5,003
Distribution Stations	$4,463	$4,700	$4,863	$5,001	$5,417
Poles, Wires	$20,986	$22,723	$24,323	$25,834	$27,170
Line Transformers	$3,406	$3,638	$3,855	$4,056	$4,226
Services and Meters	$6,818	$6,367	$6,138	$6,111	$6,332
General Plant	$4,209	$5,136	$5,152	$5,179	$5,222
Equipment	$4,101	$4,742	$5,233	$5,239	$5,121
IT Assets	$9,191	$10,779	$11,237	$11,591	$13,007
Other Distribution Assets	$1,341	$1,432	$1,419	$1,228	$1,227
Sub-Total	**$59,150**	**$64,873**	**$67,948**	**$70,128**	**$73,832**
Contributions and Grants	$(6,700)	$(8,012)	$(8,806)	$(9,417)	$(9,806)
TOTAL[3]	**$52,450**	**$56,860**	**$59,142**	**$60,711**	**$64,027**

[3] Totals may not sum due to rounding.

Table 2 – UPDATED FOR 2019 ACTUALS – Depreciation Expense - Test Years ($'000s)

Asset Group	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
Land and Buildings	$878	$994	$1,055	$1,080	$1,107
TS Primary Above 50	$3,758	$4,360	$4,673	$4,811	$5,003
Distribution Stations	$4,463	$4,700	$4,863	$5,001	$5,417
Poles, Wires	$20,986	$22,723	$24,323	$25,834	$27,170
Line Transformers	$3,406	$3,638	$3,855	$4,056	$4,226
Services and Meters	$6,818	$6,367	$6,138	$6,111	$6,332
General Plant	$4,209	$5,136	$5,152	$5,179	$5,222
Equipment	$4,063	$4,693	$5,196	$5,202	$5,085
IT Assets	$9,191	$10,779	$11,237	$11,591	$13,007
Other Distribution Assets	$1,262	$1,321	$1,330	$1,138	$1,137
Sub-Total	**$59,033**	**$64,711**	**$67,822**	**$70,002**	**$73,706**
Contributions and Grants	$(6,700)	$(8,012)	$(8,806)	$(9,417)	$(9,806)
TOTAL[4]	**$52,333**	**$56,699**	**$59,015**	**$60,585**	**$63,900**

For detailed depreciation and amortization expenses, please see the following Attachments:

- Attachment 4-3-1(B): Appendix 2-C: 2016 Depreciation and Amortization Expense
- Attachment 4-3-1(C): Appendix 2-C: 2017 Depreciation and Amortization Expense
- Attachment 4-3-1(D): Appendix 2-C: 2018 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(E): Appendix 2-C: 2019 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(F): Appendix 2-C: 2020 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(G): Appendix 2-C: 2021 Depreciation and Amortization Expense

[4] Totals may not sum due to rounding.

- UPDATED Attachment 4-3-1(H): Appendix 2-C: 2022 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(I): Appendix 2-C: 2023 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(J): Appendix 2-C: 2024 Depreciation and Amortization Expense
- UPDATED Attachment 4-3-1(K): Appendix 2-C: 2025 Depreciation and Amortization Expense

3. DISPOSITIONS BY ASSET GROUP

In Tables 3 and 4 below, Hydro Ottawa provides details of amortization related to disposals by asset group for the Historical Years (2016-2018), Bridge Years (2019 and 2020), and Test Years (2021-2025).

Table 3 has been updated to account for 2019 actuals, such that it provides details of amortization related to disposals by asset group for the Historical Years (2016-2019) and Bridge Year (2020).

Table 3 – AS ORIGINALLY SUBMITTED – Disposals - Historical Years ($'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Bridge Year	2020 Bridge Year
Land and Buildings	$(1)	$0	$0	$0	$0
TS Primary Above 50	$0	$0	$0	$0	$0
Distribution Stations	$(2)	$(74)	$(80)	$(106)	$(55)
Poles, Wires	$(75)	$(129)	$(104)	$(271)	$(122)
Line Transformers	$(33)	$(30)	$(5)	$(60)	$(41)
Services and Meters	$(68)	$76	$(499)	$(209)	$(157)
General Plant	$0	$0	$0	$(6,996)	$0
Equipment	$(46)	$(1,235)	$(49)	$(138)	$(93)
IT Assets	$0	$(3,250)	$(133)	$0	$0
Other Distribution Assets	$0	$(184)	$(18)	$(134)	$0
Sub-Total	**$(225)**	**$(4,827)**	**$(888)**	**$(7,915)**	**$(468)**
Contributions and Grants	$0	$0	$0	$0	$0
TOTAL[5]	**$(225)**	**$(4,827)**	**$(888)**	**$(7,915)**	**$(468)**

[5] Totals may not sum due to rounding.

Table 3 – UPDATED FOR 2019 ACTUALS – Disposals - Historical Years ($'000s)

Asset Group	2016 Historical Year	2017 Historical Year	2018 Historical Year	2019 Historical Year	2020 Bridge Year
Land and Buildings	$(1)	$0	$0	$0	$0
TS Primary Above 50	$0	$0	$0	$(623)	$0
Distribution Stations	$(2)	$(74)	$(80)	$(553)	$(55)
Poles, Wires	$(75)	$(129)	$(104)	$(40)	$(122)
Line Transformers	$(33)	$(30)	$(5)	$(397)	$(41)
Services and Meters	$(68)	$76	$(499)	$(275)	$(157)
General Plant	$0	$0	$0	$(7,096)	$0
Equipment	$(46)	$(1,235)	$(49)	$(1,458)	$(93)
IT Assets	$0	$(3,250)	$(133)	$(4,851)	$0
Other Distribution Assets	$0	$(184)	$(18)	$(134)	$0
Sub-Total	**$(225)**	**$(4,827)**	**$(888)**	**$(15,428)**	**$(468)**
Contributions and Grants	$0	$0	$0	$0	$0
TOTAL[6]	**$(225)**	**$(4,827)**	**$(888)**	**$(15,428)**	**$(468)**

[6] Totals may not sum due to rounding.

Table 4 – Disposals - Test Years ($'000s)

Asset Group	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
Land and Buildings	$0	$0	$0	$0	$0
TS Primary Above 50	$0	$0	$0	$0	$0
Distribution Stations	$(55)	$(55)	$(55)	$(55)	$(55)
Poles, Wires	$(122)	$(122)	$(122)	$(122)	$(122)
Line Transformers	$(41)	$(41)	$(41)	$(41)	$(41)
Services and Meters	$(762)	$(776)	$(689)	$(738)	$(775)
General Plant	$0	$0	$0	$0	$0
Equipment	$(1,624)	$(1,835)	$(1,413)	$(902)	$(350)
IT Assets	$0	$0	$0	$0	$0
Other Distribution Assets	$0	$0	$0	$0	$0
Sub-Total	**$(2,604)**	**$(2,829)**	**$(2,320)**	**$(1,858)**	**$(1,343)**
Contributions and Grants	$0	$600	$360	$370	$410
TOTAL[7]	**$(2,604)**	**$(2,229)**	**$(1,960)**	**$(1,488)**	**$(933)**

4. DEPRECIATION AND AMORTIZATION RATES

Tables 5 and 6 below provide detailed rates of depreciation and amortization by Uniform System of Accounts ("USofA"). Depreciation and amortization rates will remain unchanged between the Historical/Bridge Years and the Test Years for all Accounts, with the exception of Accounts 1920 and 1930.

[7] Totals may not sum due to rounding.

Table 5 – Property, Plant, and Equipment Depreciation Rates 2016-2020

OEB Acct	Description	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge
1609	Capital Contributions Paid	2.2%	2.2%	2.2%	2.2%	2.2%
1611	Computer Software	10% - 20%	10% - 20%	10% - 20%	10% - 20%	10% - 20%
1612	Land Rights	2%	2%	2%	2%	2%
1805	Land	N/A	N/A	N/A	N/A	N/A
1808	Buildings	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%
1815	Transformer Station Equip. >50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1820	Distribution Station Equip. <50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1830	Poles, Towers & Fixtures	2.2%	2.2%	2.2%	2.2%	2.2%
1835	Overhead Conductors & Devices	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%
1840	Underground Conduit	2.5%	2.5%	2.5%	2.5%	2.5%
1845	Underground Conductors & Devices	1.7% - 4%	1.7% - 4%	1.7% - 4%	1.7% - 4%	1.7% - 4%
1850	Line Transformers	2.9%	2.9%	2.9%	2.9%	2.9%
1855	Services (Overhead & Underground)	2.2%	2.2%	2.2%	2.2%	2.2%
1860	Meters	6.7%	6.7%	6.7%	6.7%	6.7%
1905	Land	N/A	N/A	N/A	N/A	N/A
1908	Buildings & Fixtures	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%
1915	Office Furniture & Equipment	10%	10%	10%	10%	10%
1920	Computer Equipment - Hardware	10% - 20%	10% - 20%	10% - 20%	10% - 20%	10% - 20%
1930	Transportation Equipment	6.7% - 14.3%	6.7% - 14.3%	6.7% - 14.3%	6.7% - 14.3%	6.7% - 14.3%
1935	Stores Equipment	10%	10%	10%	10%	10%
1940	Tools, Shop & Garage Equipment	10%	10%	10%	10%	10%
1945	Measurement & Testing Equipment	10%	10%	10%	10%	10%
1950	Power Operated Equipment	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%
1955	Communications Equipment	4% - 12.5%	4% - 12.5%	4% - 12.5%	4% - 12.5%	4% - 12.5%
1960	Miscellaneous Equipment	10%	10%	10%	10%	10%
1970	Load Mgmt Controls Customer Premises	10%	10%	10%	10%	10%
1975	Load Mgmt Controls Utility Premises	10%	10%	10%	10%	10%
1980	System Supervisor Equipment[8]	6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%

[8] Starting in 2017, this account also includes dark fiber, communication underground conduit and chambers, communication support strand and fixture, and communication tower and support.

Table 6 – Property, Plant, and Equipment Depreciation Rate 2021-2025

OEB Acct	Description	2021 Test Year	2022 Test Year	2023 Test Year	2024 Test Year	2025 Test Year
1609	Capital Contributions Paid	2.2%	2.2%	2.2%	2.2%	2.2%
1611	Computer Software	10% - 20%	10% - 20%	10% - 20%	10% - 20%	10% - 20%
1612	Land Rights	2%	2%	2%	2%	2%
1805	Land	N/A	N/A	N/A	N/A	N/A
1808	Buildings	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%	1.3% - 3.3%
1815	Transformer Station Equip. >50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1820	Distribution Station Equip. <50 kV	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%
1830	Poles, Towers & Fixtures	2.2%	2.2%	2.2%	2.2%	2.2%
1835	Overhead Conductors & Devices	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%	2.2% - 4%
1840	Underground Conduit	2.5%	2.5%	2.5%	2.5%	2.5%
1845	Underground Conductors & Devices	1.7 %- 4%	1.7 %- 4%	1.7 %- 4%	1.7 %- 4%	1.7 %- 4%
1850	Line Transformers	2.9%	2.9%	2.9%	2.9%	2.9%
1855	Services (Overhead & Underground)	2.2%	2.2%	2.2%	2.2%	2.2%
1860	Meters	6.7%	6.7%	6.7%	6.7%	6.7%
1905	Land	N/A	N/A	N/A	N/A	N/A
1908	Buildings & Fixtures	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%	1.3% - 10%
1915	Office Furniture & Equipment	10%	10%	10%	10%	10%
1920	Computer Equipment - Hardware	10% - 25%	10% - 25%	10% - 25%	10% - 25%	10% - 25%
1930	Transportation Equipment	6.7% - 12.5%	6.7% - 12.5%	6.7% - 12.5%	6.7% - 12.5%	6.7% - 12.5%
1935	Stores Equipment	10%	10%	10%	10%	10%
1940	Tools, Shop & Garage Equipment	10%	10%	10%	10%	10%
1945	Measurement & Testing Equipment	10%	10%	10%	10%	10%
1950	Power Operated Equipment	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%	6.7% - 8.3%
1955	Communications Equipment	4.0% -12.5%	4.0% - 12.5%	4.0% - 12.5%	4.0% - 12.5%	4.0% - 12.5%
1960	Miscellaneous Equipment	10%	10%	10%	10%	10%
1970	Load Mgmt Controls Customer Premises	10%	10%	10%	10%	10%
1975	Load Mgmt Controls Utility Premises	10%	10%	10%	10%	10%
1980	System Supervisor Equipment	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%	2.2% - 6.7%

The useful lives of Hydro Ottawa's assets and components have been determined based on experience, professional judgement, failure data, and local conditions. Some useful lives differ when compared to the useful life range noted in the Kinectrics Report.[9] However, the useful lives of Hydro Ottawa's assets have been approved in previous rate applications. The utility has therefore continued to depreciate its fixed assets using the same methodology and useful lives as in prior years.

For further details on the useful lives of Hydro Ottawa's assets, please reference Attachment 4-3-1(A): OEB Appendix 2-BB - Service Life Comparison.

As indicated in Exhibit 2-4-4: Capitalization Policy, Hydro Ottawa is requesting to change the useful life of laptops from five years to four years. The useful life for Computer Equipment (Hardware) contained in the Kinectrics Report is three to five years.

Hydro Ottawa is also requesting to extend the useful life of some transportation equipment. Please refer to Attachment 2-4-3(F): Fleet Replacement Program for further details.

There are variances between the depreciation and amortization calculated using the formulas in the annual UPDATED Appendix 2-C[10] and those presented in the annual UPDATED Appendix 2-BA.[11] Hydro Ottawa uses the half-year rule for calculating depreciation/amortization in the year that capital additions are added to the rate base, for both actual and budgeted pooled assets. However, in the case of discrete material assets (e.g. a station, major investment in IT assets, and so forth), the actual or forecasted in-service month would be used to calculate the depreciation/amortization. This is consistent with Hydro Ottawa's historical practices for these types of assets, for both rate application and financial reporting purposes.

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[9] Kinetrics Inc., *Asset Depreciation Study for Use by Electricity Distributors*, EB-2010-0178 (July 8, 2010).
[10] The OEB's Appendix 2-C for the years 2016-2025 can be found in Attachments 4-3-1(B)-(K), respectively. Appendix 2-C for the years 2019-2025 has been updated to account for 2019 actuals, and can be found in UPDATED Attachments 4-3-1(E)-(K), respectively.
[11] The OEB's Appendix 2-BA for the years 2016-2025 can be found in Attachments 2-2-1(A)-(J), respectively. Appendix 2-BA for the years 2019-2025 has been updated to account for 2019 actuals, and can be found in UPDATED Attachments 2-2-1(D)-(J), respectively.

Hydro Ottawa uses its financial system to calculate depreciation and amortization expense on assets that are already in service, and uses a depreciation forecast model to calculate depreciation and amortization on budgeted capital additions. Both the financial system and forecast model incorporate actual in-service dates of discrete material assets in the calculation. Hydro Ottawa proposes to continue this method of calculating depreciation for the 2021-2025 period.

5. NET GAIN/LOSS ON DISPOSITION

In Hydro Ottawa's last rebasing application,[12] the OEB approved the establishment of USofA 4362 Loss from Retirement of Utility and Other Property to record the difference between the forecast and actual loss on the disposal of fixed assets related to retirement of assets or damages to plant. Table 7 below provides the balance in USofA 4362 for the Historical Years (2016-2018) and Bridge Years (2019 and 2020). The table has been updated to provide the balance in USofA 4362 for the Historical Years (2016-2019) and Bridge Year (2020).

[12] Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).

Table 7 – AS ORIGINALLY SUBMITTED – Loss from Retirement of Utility and Other Property ($'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge	TOTAL
USofA 4362 OEB-Approved	$(198)	$(198)	$(198)	$(198)	$(198)	**$(990)**
USofA 4362 Actual	$350	$152	$264	$1,164	$301	**$2,231**
USofA 1508[13] *Variance*[14]	*$(548)*	*$(351)*	*$(462)*	*$(1,362)*	*$(499)*	***$(3,221)***

Table 7 – UPDATED FOR 2019 ACTUALS – Loss from Retirement of Utility and Other Property ($'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge	TOTAL
USofA 4362 OEB-Approved	$(198)	$(198)	$(198)	$(198)	$(198)	**$(990)**
USofA 4362 Actual	$350	$152	$264	$1,984	$301	**$3,051**
USofA 1508[15] *Variance*[16]	*$(548)*	*$(351)*	*$(462)*	*$(2,183)*	*$(499)*	***$(4,043)***

The 2019 forecast net gain in Table 7 does not include the net gain on the sale of the Albion land and building, nor the net gain on the sale of the Merivale land and building. Similarly, the net gain in the updated version of Table 7 that accounts for 2019 actuals does not include the net gain on the sale of the Albion or the Merivale lands and buildings. As per the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term, the utility is recording the net gain from the sale of these facilities in a separate regulatory account (Gains/Losses from Sale of Existing Facilities Deferral account), which captures 100% of the after tax net gain/loss on the sale of the facilities.

In UPDATED Exhibit 9-1-3: Group 2 Accounts, Hydro Ottawa is seeking the continuance of the net gain/loss on fixed assets variance account. Table 8 below provides the annual forecast amounts for the 2021-2025 Test Years.

[13] This refers to USofA 1508 Sub-Account Gains and Loss on Disposal of Fixed Assets Variance Account.
[14] Totals may not sum due to rounding.
[15] This refers to USofA 1508 Sub-Account Gains and Loss on Disposal of Fixed Assets Variance Account.
[16] Totals may not sum due to rounding.

Table 8 – Loss from Retirement of Utility and Other Property ($'000s)

Net (Gain)/Loss	2021 Test	2022 Test	2023 Test	2024 Test	2025 Test	TOTAL
Forecast	$389	$751	$323	$336	$445	**$2,243**

6. ASSET RETIREMENT OBLIGATION

According to the International Financial Reporting Standards and Article 410 of the OEB's *Accounting Procedures Handbook*, an entity is required to recognize a liability related to the retirement of certain fixed assets typically as a result of environmental laws or regulations. This obligation – referred to as an asset retirement obligation ("ARO") – is measured at the present value of future decommissioning, restoration, or similar cost.

Hydro Ottawa maintains an ARO related to the disposal and removal cost of Polychlorinated Biphenyls in its distribution equipment. The amount of the obligation and related depreciation expense in Historical and Bridge Years are shown in Table 9.

Table 9 – AS ORIGINALLY SUBMITTED – Asset Retirement Obligation ($'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Bridge	2020 Bridge
ARO	$(206)	$(107)	$(62)	$0	$0
Related depreciation expense	$36	$36	$36	$36	$36

Table 9 – UPDATED FOR 2019 ACTUALS – Asset Retirement Obligation ($'000s)

Net (Gain)/Loss	2016 Historical	2017 Historical	2018 Historical	2019 Historical	2020 Bridge
ARO	$(206)	$(107)	$(62)	$0	$0
Related depreciation expense	$36	$36	$36	$36	$36

UPDATED - Appendix 2-C
Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2019	MIFRS

		Book Values							Service Lives				Depreciation Expense					
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change (Jan. 1) 1	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
		a	b	c = a-b	d	e	f = d- e	g	h	i = 1/h	j	k = 1/j	l = c/h	m = f/j	n = g*0.5/j	o = l+m+n	p	q = p-o
1611	Computer Software (Formally known as Account 1925)			$ -	$ 66,628,705	$ 7,533,163	$ 59,095,542	$ 1,921,467		0.00%	9.00	11.11%	$ -	$ 6,566,171	$ 106,748	$ 6,672,920	$ 6,143,340	-$ 529,580
1612	Land Rights (Formally known as Account 1906)			$ -	$ 2,288,399	$ 4	$ 2,288,395	$ 236,496		0.00%	39.00	2.56%	$ -	$ 58,677	$ 3,032	$ 61,709	$ 61,925	$ 216
1805	Land			$ -	$ 4,652,534		$ 4,652,534	$ 7,031		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1808	Buildings			$ -	$ 29,662,313	$ 327,320	$ 29,334,993	$ 24,664		0.00%	38.00	2.63%	$ -	$ 771,974	$ 325	$ 772,298	$ 776,707	$ 4,409
1810	Leasehold Improvements			$ -	$ -		$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1815	Transformer Station Equipment >50 kV			$ -	$ 87,113,649	$ 309,325	$ 86,804,324	$29,717,361		0.00%	30.00	3.33%	$ -	$ 2,893,477	$ 495,289	$ 3,388,767	$ 3,327,564	-$ 61,203
1820	Distribution Station Equipment <50 kV			$ -	$ 116,486,704	$ 2,913,792	$ 113,572,912	$13,434,802		0.00%	30.00	3.33%	$ -	$ 3,785,764	$ 223,913	$ 4,009,677	$ 4,130,036	$ 120,359
1825	Storage Battery Equipment			$ -	$ -		$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1830	Poles, Towers & Fixtures			$ -	$ 128,238,649		$ 128,238,649	$ 9,347,374		0.00%	40.00	2.50%	$ -	$ 3,205,966	$ 116,842	$ 3,322,808	$ 3,311,715	-$ 11,093
1835	Overhead Conductors & Devices			$ -	$ 121,173,565	$ 89,197	$ 121,084,368	$ 7,379,518		0.00%	38.00	2.63%	$ -	$ 3,186,431	$ 97,099	$ 3,283,530	$ 3,233,029	-$ 50,501
1840	Underground Conduit			$ -	$ 183,207,129		$ 183,207,129	$33,680,556		0.00%	34.00	2.94%	$ -	$ 5,388,445	$ 495,302	$ 5,883,747	$ 5,633,685	-$ 250,062
1845	Underground Conductors & Devices			$ -	$ 158,561,750	$ 695,152	$ 157,866,598	$16,811,784		0.00%	30.00	3.33%	$ -	$ 5,262,220	$ 280,196	$ 5,542,416	$ 5,424,311	-$ 118,105
1850	Line Transformers			$ -	$ 87,689,119		$ 87,689,119	$ 9,114,220		0.00%	30.00	3.33%	$ -	$ 2,922,971	$ 151,904	$ 3,074,874	$ 3,023,783	-$ 51,091
1855	Services (Overhead & Underground)			$ -	$ 67,353,122		$ 67,353,122	$ 3,778,458		0.00%	38.00	2.63%	$ -	$ 1,772,451	$ 49,717	$ 1,822,167	$ 1,792,870	-$ 29,297
1860	Meters			$ -	$ -		$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1860	Meters (Smart Meters)			$ -	$ 42,379,461		$ 42,379,461	$ 5,261,159		0.00%	10.00	10.00%	$ -	$ 4,237,946	$ 263,058	$ 4,501,004	$ 5,067,650	$ 566,646
1905	Land			$ -	$ 20,559,542		$ 20,559,542	-$ 7,032		0.00%		0.00%	$ -	$ -	$ -	$ -	$ 2,707	$ 2,707
1908	Buildings & Fixtures			$ -	$ 35,196,689	$ 399,989	$ 34,796,700	$80,491,112		0.00%	24.00	4.17%	$ -	$ 1,449,863	$ 1,676,898	$ 3,126,761	$ 3,148,452	$ 21,691
1910	Leasehold Improvements			$ -	$ -		$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1915	Office Furniture & Equipment (10 years)			$ -	$ 1,615,831	$ 538,248	$ 1,077,583	$ 3,375,063		0.00%	10.00	10.00%	$ -	$ 107,758	$ 168,753	$ 276,511	$ 332,224	$ 55,713
1915	Office Furniture & Equipment (5 years)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1920	Computer Equipment - Hardware			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1920	Computer Equip.-Hardware(Post Mar. 22/04)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1920	Computer Equip.-Hardware(Post Mar. 19/07)			$ -	$ 8,599,983	$ 1,408,900	$ 7,191,083	$ 4,355,405		0.00%	6.00	16.67%	$ -	$ 1,198,514	$ 362,950	$ 1,561,464	$ 1,613,390	$ 51,926
1930	Transportation Equipment			$ -	$ 17,432,618	$ 675,181	$ 16,757,437	$ 1,716,783		0.00%	10.00	10.00%	$ -	$ 1,675,744	$ 85,839	$ 1,761,583	$ 1,700,698	-$ 60,885
1935	Stores Equipment			$ -	$ -		$ -	$ 560,703		0.00%	10.00	10.00%	$ -	$ -	$ 28,035	$ 28,035	$ 28,035	-$ 0
1940	Tools, Shop & Garage Equipment			$ -	$ 4,196,389	$ 302,427	$ 3,893,962	$ 378,633		0.00%	10.00	10.00%	$ -	$ 389,396	$ 18,932	$ 408,328	$ 447,027	$ 38,699
1945	Measurement & Testing Equipment			$ -	$ 215,441	$ 5,974	$ 209,467			0.00%	9.00	11.11%	$ -	$ 23,274	$ -	$ 23,274	$ 23,447	$ 173
1950	Power Operated Equipment			$ -	$ 984,836	$ 14,694	$ 970,142	$ 137,293		0.00%	11.00	9.09%	$ -	$ 88,195	$ 6,241	$ 94,435	$ 89,271	-$ 5,164
1955	Communications Equipment			$ -	$ 10,990,288	$ 30,391	$ 10,959,897	$ 4,307,702		0.00%	9.00	11.11%	$ -	$ 1,217,766	$ 239,317	$ 1,457,083	$ 1,481,019	$ 23,936
1955	Communication Equipment (Smart Meters)			$ -	$ -		$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1960	Miscellaneous Equipment			$ -	$ 255,191	$ 21,376	$ 233,815	$ 2,187		0.00%	7.00	14.29%	$ -	$ 33,402	$ 156	$ 33,558	$ 27,502	-$ 6,056
1970	Load Management Controls Customer Premises			$ -	$ 134,245		$ 134,245			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1975	Load Management Controls Utility Premises			$ -	$ -		$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1980	System Supervisor Equipment			$ -	$ 11,472,277	$ 214,044	$ 11,258,233	$ 2,263,895		0.00%	10.00	10.00%	$ -	$ 1,125,823	$ 113,195	$ 1,239,018	$ 1,219,913	-$ 19,105
1985	Miscellaneous Fixed Assets			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	-	$ -
1990	Other Tangible Property			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	-	$ -
2440	Contributions & Grants			$ -	-$ 117,728,566		-$ 117,728,566	-$24,990,799		0.00%	32.00	3.13%	$ -	-$ 3,679,018	-$ 390,481	-$ 4,069,499	-$ 3,767,044	$ 302,455
1609	Capital Contributions Paid				$ 22,975,568		$ 22,975,568	$11,709,864		0.00%	45.00	2.22%	$ -	$ 510,568	$ 130,110	$ 640,678	$ 627,148	-$ 13,530
	Total	$ -	$ -	$ -	$ 1,112,335,431	$ 15,479,177	$ 1,096,856,254	$215,015,699					$ -	$ 44,193,778	$ 4,723,370	$ 48,917,147	$ 48,900,404	-$ 16,743

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.
Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

Notes:

1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.

2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.

3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised CGAAP as at January 1 of the year of policy changes.

4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.

5 OEB policy of the "half-year" rule - the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.

6 The applicant must provide an explanation of material variances in evidence.

7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

UPDATED - Appendix 2-C
Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2020	MIFRS

		Book Values							Service Lives				Depreciation Expense					
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
		a	b	c = a-b	d	e	f = d- e	g	h	i = 1/h	j	k = 1/j	l = c/h	m = f/j	n = g*0.5/j	o = l+m+n	p	q = p-o
1611	Computer Software (Formally known as Account 1925)			$ -	$ 66,603,570	$ 10,925,522	$ 55,678,048	$13,030,880		0.00%	9.00	11.11%	$ -	$ 6,186,450	$ 723,938	$ 6,910,388	$ 6,468,113	-$ 442,275
1612	Land Rights (Formally known as Account 1906)			$ -	$ 2,524,895	$ 4	$ 2,524,891	$ 8,306		0.00%	39.00	2.56%	$ -	$ 64,741	$ 106	$ 64,847	$ 59,409	-$ 5,438
1805	Land			$ -	$ 4,659,565		$ 4,659,565	$ 1,047		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1808	Buildings			$ -	$ 29,686,977	$ 327,320	$ 29,359,657	$ 707,754		0.00%	38.00	2.63%	$ -	$ 772,623	$ 9,313	$ 781,935	$ 802,687	$ 20,752
1810	Leasehold Improvements			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1815	Transformer Station Equipment >50 kV			$ -	$ 115,599,760	$ 1,004,348	$ 114,595,412	$ 3,148,680		0.00%	30.00	3.33%	$ -	$ 3,819,847	$ 52,478	$ 3,872,325	$ 3,669,308	-$ 203,017
1820	Distribution Station Equipment <50 kV			$ -	$ 129,195,408	$ 3,513,471	$ 125,681,937	$ 5,860,007		0.00%	31.00	3.23%	$ -	$ 4,054,256	$ 94,516	$ 4,148,772	$ 4,450,661	$ 301,889
1825	Storage Battery Equipment			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1830	Poles, Towers & Fixtures			$ -	$ 137,470,488		$ 137,470,488	$ 9,394,503		0.00%	40.00	2.50%	$ -	$ 3,436,762	$ 117,431	$ 3,554,193	$ 3,480,842	-$ 73,351
1835	Overhead Conductors & Devices			$ -	$ 128,553,082	$ 135,161	$ 128,417,921	$16,910,513		0.00%	39.00	2.56%	$ -	$ 3,292,767	$ 216,801	$ 3,509,569	$ 3,592,858	$ 83,289
1840	Underground Conduit			$ -	$ 216,883,550	$ 371,435	$ 216,512,115	$23,166,955		0.00%	36.00	2.78%	$ -	$ 6,014,225	$ 321,763	$ 6,335,989	$ 6,137,186	-$ 198,803
1845	Underground Conductors & Devices			$ -	$ 175,230,833	$ 959,525	$ 174,271,308	$24,832,592		0.00%	31.00	3.23%	$ -	$ 5,621,655	$ 400,526	$ 6,022,181	$ 5,978,466	-$ 43,715
1850	Line Transformers			$ -	$ 94,890,921		$ 94,890,921	$ 8,055,161		0.00%	30.00	3.33%	$ -	$ 3,163,031	$ 134,253	$ 3,297,283	$ 3,187,549	-$ 109,734
1855	Services (Overhead & Underground)			$ -	$ 71,087,401	$ 44,179	$ 71,043,222	$ 4,568,833		0.00%	38.00	2.63%	$ -	$ 1,869,558	$ 60,116	$ 1,929,675	$ 1,911,293	-$ 18,382
1860	Meters			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1860	Meters (Smart Meters)			$ -	$ 47,198,912		$ 47,198,912	$ 5,077,444		0.00%	10.00	10.00%	$ -	$ 4,719,891	$ 253,872	$ 4,973,763	$ 5,049,583	$ 75,820
1905	Land			$ -	$ 19,942,005		$ 19,942,005	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ 4,047	$ 4,047
1908	Buildings & Fixtures			$ -	$ 94,650,962	$ 394,976	$ 94,255,986	$ 352,679		0.00%	31.00	3.23%	$ -	$ 3,040,516	$ 5,688	$ 3,046,204	$ 3,025,591	-$ 20,613
1910	Leasehold Improvements			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1915	Office Furniture & Equipment (10 years)			$ -	$ 4,344,722	$ 646,173	$ 3,698,549	$ 100,766		0.00%	10.00	10.00%	$ -	$ 369,855	$ 5,038	$ 374,893	$ 425,555	$ 50,662
1915	Office Furniture & Equipment (5 years)			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1920	Computer Equipment - Hardware			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1920	Computer Equip.-Hardware(Post Mar. 22/04)			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1920	Computer Equip.-Hardware(Post Mar. 19/07)			$ -	$ 10,046,414	$ -	$ 10,046,414	$ 1,459,982		0.00%	7.00	14.29%	$ -	$ 1,435,202	$ 104,284	$ 1,539,486	$ 1,762,186	$ 222,700
1930	Transportation Equipment			$ -	$ 18,838,678	$ 1,770,698	$ 17,067,980	$ 180,773		0.00%	11.00	9.09%	$ -	$ 1,551,635	$ 8,217	$ 1,559,852	$ 1,560,773	$ 922
1935	Stores Equipment			$ -	$ 560,703		$ 560,703	$ -		0.00%	10.00	10.00%	$ -	$ 56,070	$ -	$ 56,070	$ 56,225	$ 155
1940	Tools, Shop & Garage Equipment			$ -	$ 3,997,781	$ 577,242	$ 3,420,539	$ 449,596		0.00%	10.00	10.00%	$ -	$ 342,054	$ 22,480	$ 364,534	$ 446,365	$ 81,831
1945	Measurement & Testing Equipment			$ -	$ 209,467	$ 5,974	$ 203,493	$ -		0.00%	9.00	11.11%	$ -	$ 22,610	$ -	$ 22,610	$ 23,512	$ 902
1950	Power Operated Equipment			$ -	$ 1,122,129	$ 14,694	$ 1,107,435	$ 354,695		0.00%	14.00	7.14%	$ -	$ 79,103	$ 12,668	$ 91,770	$ 89,524	-$ 2,246
1955	Communications Equipment			$ -	$ 15,266,072	$ 31,917	$ 15,234,155	$ 1,012,516		0.00%	10.00	10.00%	$ -	$ 1,523,416	$ 50,626	$ 1,574,041	$ 1,560,031	-$ 14,010
1955	Communication Equipment (Smart Meters)			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -	$ -	$ -
1960	Miscellaneous Equipment			$ -	$ 198,958	$ 58,420	$ 140,538	$ 6,099		0.00%	10.00	10.00%	$ -	$ 14,054	$ 305	$ 14,359	$ 25,019	$ 10,660
1970	Load Management Controls Customer Premises			$ -	$ -		$ -	$ -		0.00%	10.00	10.00%	$ -	$ -	$ -	$ -	$ -	$ -
1975	Load Management Controls Utility Premises			$ -	$ -		$ -	$ -		0.00%	10.00	10.00%	$ -	$ -	$ -	$ -	$ -	$ -
1980	System Supervisor Equipment			$ -	$ 13,736,173	$ 600,651	$ 13,135,522	$ 1,013,957		0.00%	11.00	9.09%	$ -	$ 1,194,138	$ 46,089	$ 1,240,227	$ 1,235,550	-$ 4,677
1985	Miscellaneous Fixed Assets			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1990	Other Tangible Property			$ -	$ -		$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
2440	Contributions & Grants			$ -	-$ 142,719,366		-$ 142,719,366	-$36,003,198		0.00%	32.00	3.13%	$ -	-$ 4,459,980	-$ 562,550	-$ 5,022,530	-$ 5,089,115	-$ 66,585
1609	Capital Contributions Paid				$ 34,685,433		$ 34,685,433	$ 910,000		0.00%	45.00	2.22%	$ -	$ 770,787	$ 10,111	$ 780,899	$ 790,975	$ 10,076
	Total	$ -	$ -	$ -	$ 1,294,465,493	$ 21,381,710	$ 1,273,083,783	$ 84,600,540					$ -	$ 48,955,266	$ 2,088,070	$ 51,043,336	$ 50,704,193	-$ 339,143

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

Notes:

1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.

2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.

3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised CGAAP as at January 1 of the year of policy changes.

4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.

5 OEB policy of the "half-year" rule - the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.

6 The applicant must provide an explanation of material variances in evidence.

7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

UPDATED - Appendix 2-C
Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2021	MIFRS

		Book Values							Service Lives				Depreciation Expense					
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
		a	b	c = a-b	d	e	f = d- e	g	h	i = 1/h	j	k = 1/j	l = c/h	m = f/j	n = g*0.5/j	o = l+m+n	p	q = p-o
1611	Computer Software (Formally known as Account 1925)			$ -	$ 79,634,450	$ 17,064,281	$ 62,570,169	$ 6,988,497		0.00%	9.00	11.11%	$ -	$ 6,952,241	$ 388,250	$ 7,340,491	$ 7,305,676	-$ 34,815
1612	Land Rights (Formally known as Account 1906)			$ -	$ 2,533,201	$ 4	$ 2,533,197	$ 13,268		0.00%	39.00	2.56%	$ -	$ 64,954	$ 170	$ 65,124	$ 59,497	-$ 5,627
1805	Land			$ -	$ 4,660,612		$ 4,660,612	$ 1,569		0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1808	Buildings			$ -	$ 30,394,731	$ 390,060	$ 30,004,671	$ 724,819		0.00%	38.00	2.63%	$ -	$ 789,597	$ 9,537	$ 799,134	$ 818,992	$ 19,858
1810	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1815	Transformer Station Equipment >50 kV			$ -	$ 118,748,440	$ 1,429,027	$ 117,319,413	$ 8,247,498		0.00%	32.00	3.13%	$ -	$ 3,666,232	$ 128,867	$ 3,795,099	$ 3,757,680	-$ 37,419
1820	Distribution Station Equipment <50 kV			$ -	$ 134,959,234	$ 4,398,489	$ 130,560,745	$13,738,471		0.00%	32.00	3.13%	$ -	$ 4,080,023	$ 214,664	$ 4,294,687	$ 4,462,581	$ 167,894
1825	Storage Battery Equipment			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1830	Poles, Towers & Fixtures			$ -	$ 146,551,288		$ 146,551,288	$ 8,715,471		0.00%	41.00	2.44%	$ -	$ 3,574,422	$ 106,286	$ 3,680,708	$ 3,673,027	-$ 7,681
1835	Overhead Conductors & Devices			$ -	$ 145,233,051	$ 196,375	$ 145,036,676	$11,400,338		0.00%	39.00	2.56%	$ -	$ 3,718,889	$ 146,158	$ 3,865,047	$ 3,938,401	$ 73,354
1840	Underground Conduit			$ -	$ 240,050,505	$ 438,127	$ 239,612,378	$25,696,125		0.00%	37.00	2.70%	$ -	$ 6,476,010	$ 347,245	$ 6,823,255	$ 6,713,783	-$ 109,472
1845	Underground Conductors & Devices			$ -	$ 199,704,356	$ 1,438,679	$ 198,265,677	$26,000,462		0.00%	32.00	3.13%	$ -	$ 6,195,802	$ 406,257	$ 6,602,060	$ 6,661,033	$ 58,973
1850	Line Transformers			$ -	$ 102,725,515		$ 102,725,515	$ 8,365,754		0.00%	31.00	3.23%	$ -	$ 3,313,726	$ 134,932	$ 3,448,658	$ 3,405,578	-$ 43,080
1855	Services (Overhead & Underground)			$ -	$ 75,656,234	$ 44,179	$ 75,612,055	$ 4,404,116		0.00%	38.00	2.63%	$ -	$ 1,989,791	$ 57,949	$ 2,047,740	$ 2,006,006	-$ 41,734
1860	Meters			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1860	Meters (Smart Meters)			$ -	$ 51,855,664		$ 51,855,664	$ 7,339,435		0.00%	12.00	8.33%	$ -	$ 4,321,305	$ 305,810	$ 4,627,115	$ 4,812,311	$ 185,196
1905	Land			$ -	$ 19,942,005		$ 19,942,005			0.00%		0.00%	$ -	$ -	$ -	$ -	$ 4,047	$ 4,047
1908	Buildings & Fixtures			$ -	$ 95,003,641	$ 443,437	$ 94,560,204	$ 352,679		0.00%	31.00	3.23%	$ -	$ 3,050,329	$ 5,688	$ 3,056,018	$ 3,116,870	$ 60,852
1910	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1915	Office Furniture & Equipment (10 years)			$ -	$ 4,445,488	$ 709,786	$ 3,735,702	$ 75,574		0.00%	10.00	10.00%	$ -	$ 373,570	$ 3,779	$ 377,349	$ 416,853	$ 39,504
1915	Office Furniture & Equipment (5 years)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1920	Computer Equipment - Hardware			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1920	Computer Equip.-Hardware(Post Mar. 22/04)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1920	Computer Equip.-Hardware(Post Mar. 19/07)			$ -	$ 11,506,396	$ 1,360,639	$ 10,145,757	$ 1,463,823		0.00%	6.00	16.67%	$ -	$ 1,690,960	$ 121,985	$ 1,812,945	$ 1,884,900	$ 71,955
1930	Transportation Equipment			$ -	$ 18,991,686	$ 2,058,092	$ 16,933,594	$ 6,124,426		0.00%	16.00	6.25%	$ -	$ 1,058,350	$ 191,388	$ 1,249,738	$ 1,220,734	-$ 29,004
1935	Stores Equipment			$ -	$ 560,703		$ 560,703			0.00%	10.00	10.00%	$ -	$ 56,070	$ -	$ 56,070	$ 56,224	$ 154
1940	Tools, Shop & Garage Equipment			$ -	$ 4,447,377	$ 951,720	$ 3,495,657	$ 473,651		0.00%	10.00	10.00%	$ -	$ 349,566	$ 23,683	$ 373,248	$ 440,309	$ 67,061
1945	Measurement & Testing Equipment			$ -	$ 209,467	$ 5,974	$ 203,493			0.00%	10.00	10.00%	$ -	$ 20,349	$ -	$ 20,349	$ 23,447	$ 3,098
1950	Power Operated Equipment			$ -	$ 1,392,949	$ 20,015	$ 1,372,934	$ 163,845		0.00%	15.00	6.67%	$ -	$ 91,529	$ 5,462	$ 96,990	$ 99,140	$ 2,150
1955	Communications Equipment			$ -	$ 16,278,588	$ 410,286	$ 15,868,302	$ 3,476,464		0.00%	9.00	11.11%	$ -	$ 1,763,145	$ 193,137	$ 1,956,282	$ 1,786,969	-$ 169,313
1955	Communication Equipment (Smart Meters)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -	$-	$ -
1960	Miscellaneous Equipment			$ -	$ 205,057	$ 100,653	$ 104,404	$ 7,305		0.00%	12.00	8.33%	$ -	$ 8,700	$ 304	$ 9,005	$ 19,031	$ 10,026
1970	Load Management Controls Customer Premises			$ -	$ -		$ -	$ -		0.00%	10.00	10.00%	$ -	$ -	$ -	$ -	$ -	$ -
1975	Load Management Controls Utility Premises			$ -	$ -		$ -	$ -		0.00%	10.00	10.00%	$ -	$ -	$ -	$ -	$ -	$ -
1980	System Supervisor Equipment			$ -	$ 14,750,130	$ 1,175,775	$ 13,574,355	$ 1,576,567		0.00%	11.00	9.09%	$ -	$ 1,234,032	$ 71,662	$ 1,305,694	$ 1,261,664	-$ 44,030
1985	Miscellaneous Fixed Assets			$ -			$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1990	Other Tangible Property			$ -			$ -	$ -		0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
2440	Contributions & Grants			$ -	-$ 178,722,564		-$ 178,722,564	-$ 40,195,489		0.00%	31.00	3.23%	$ -	-$ 5,765,244	-$ 648,314	-$ 6,413,558	-$ 6,700,322	-$ 286,764
1609	Capital Contributions Paid				$ 35,595,433		$ 35,595,433	$51,223,891		0.00%	45.00	2.22%	$ -	$ 791,010	$ 569,154	$ 1,360,164	$ 1,088,293	-$ 271,871
	Total	$ -	$ -	$ -	$ 1,377,313,637	$ 32,635,598	$ 1,344,678,039	$ 146,378,559					$ -	$ 49,865,358	$ 2,784,053	$ 52,649,411	$ 52,332,724	-$ 316,687

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.
Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

Notes:

1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.

2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.

3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised CGAAP as at January 1 of the year of policy changes.

4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.

5 OEB policy of the "half-year" rule - the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.

6 The applicant must provide an explanation of material variances in evidence.

7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

UPDATED - Appendix 2-C
Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.	2022	MIFRS

		Book Values							Service Lives				Depreciation Expense					
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
		a	b	c = a-b	d	e	f = d- e	g	h	i = 1/h	j	k = 1/j	l = c/h	m = f/j	n = g*0.5/j	o = l+m+n	p	q = p-o
1611	Computer Software (Formally known as Account 1925)			$ -	$ 86,622,947	$ 18,168,786	$ 68,454,161	$ 6,380,278		0.00%	8.00	12.50%	$ -	$ 8,556,770	$ 398,767	$ 8,955,538	$ 8,607,321	-$ 348,217
1612	Land Rights (Formally known as Account 1906)			$ -	$ 2,546,469	$ 4	$ 2,546,465	$ 13,040		0.00%	39.00	2.56%	$ -	$ 65,294	$ 167	$ 65,461	$ 59,760	-$ 5,701
1805	Land			$ -	$ 4,662,181		$ 4,662,181	$ 162,462		0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1808	Buildings			$ -	$ 31,119,550	$ 393,954	$ 30,725,596	$ 8,365,966		0.00%	43.00	2.33%	$ -	$ 714,549	$ 97,279	$ 811,827	$ 934,231	$ 122,404
1810	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1815	Transformer Station Equipment >50 kV			$ -	$ 126,995,938	$ 1,596,720	$ 125,399,218	$25,611,949		0.00%	30.00	3.33%	$ -	$ 4,179,974	$ 426,866	$ 4,606,840	$ 4,359,904	-$ 246,936
1820	Distribution Station Equipment <50 kV			$ -	$ 148,601,524	$ 5,423,510	$ 143,178,014	$10,005,389		0.00%	33.00	3.03%	$ -	$ 4,338,728	$ 151,597	$ 4,490,325	$ 4,699,714	$ 209,389
1825	Storage Battery Equipment			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1830	Poles, Towers & Fixtures			$ -	$ 154,953,056		$ 154,953,056	$ 9,161,771		0.00%	41.00	2.44%	$ -	$ 3,779,343	$ 111,729	$ 3,891,072	$ 3,870,235	-$ 20,837
1835	Overhead Conductors & Devices			$ -	$ 156,402,845	$ 260,755	$ 156,142,090	$13,334,739		0.00%	38.00	2.63%	$ -	$ 4,109,002	$ 175,457	$ 4,284,459	$ 4,247,939	-$ 36,520
1840	Underground Conduit			$ -	$ 265,746,630	$ 646,304	$ 265,100,326	$22,225,040		0.00%	37.00	2.70%	$ -	$ 7,164,874	$ 300,338	$ 7,465,212	$ 7,282,382	-$ 182,830
1845	Underground Conductors & Devices			$ -	$ 225,345,749	$ 1,604,583	$ 223,741,166	$21,007,287		0.00%	31.00	3.23%	$ -	$ 7,217,457	$ 338,827	$ 7,556,284	$ 7,322,791	-$ 233,493
1850	Line Transformers			$ -	$ 110,870,702	$ 25,863	$ 110,844,839	$ 8,143,668		0.00%	31.00	3.23%	$ -	$ 3,575,640	$ 131,349	$ 3,706,989	$ 3,638,351	-$ 68,638
1855	Services (Overhead & Underground)			$ -	$ 80,060,350	$ 44,179	$ 80,016,171	$ 4,563,872		0.00%	38.00	2.63%	$ -	$ 2,105,689	$ 60,051	$ 2,165,740	$ 2,105,656	-$ 60,084
1860	Meters			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1860	Meters (Smart Meters)			$ -	$ 58,081,431	$ 6,259,912	$ 51,821,519	$ 7,014,822		0.00%	13.00	7.69%	$ -	$ 3,986,271	$ 269,801	$ 4,256,072	$ 4,261,148	$ 5,076
1905	Land			$ -	$ 19,942,005		$ 19,942,005			0.00%		0.00%	$ -	$ -	$ -	$ -	$ 4,047	$ 4,047
1908	Buildings & Fixtures			$ -	$ 95,356,320	$ 445,220	$ 94,911,100	$ 1,594,802		0.00%	31.00	3.23%	$ -	$ 3,061,648	$ 25,723	$ 3,087,371	$ 3,185,739	$ 98,368
1910	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1915	Office Furniture & Equipment (10 years)			$ -	$ 4,521,062	$ 879,564	$ 3,641,498	$ 75,574		0.00%	10.00	10.00%	$ -	$ 364,150	$ 3,779	$ 367,929	$ 407,568	$ 39,640
1915	Office Furniture & Equipment (5 years)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equipment - Hardware			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 22/04)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 19/07)			$ -	$ 12,970,219	$ 2,015,003	$ 10,955,216	$ 2,517,544		0.00%	6.00	16.67%	$ -	$ 1,825,869	$ 209,795	$ 2,035,665	$ 2,172,161	$ 136,496
1930	Transportation Equipment			$ -	$ 23,294,547	$ 3,685,023	$ 19,609,524	$ 5,223,986		0.00%	13.00	7.69%	$ -	$ 1,508,425	$ 200,923	$ 1,709,347	$ 1,577,489	-$ 131,858
1935	Stores Equipment			$ -	$ 560,703		$ 560,703			0.00%	10.00	10.00%	$ -	$ 56,070	$ -	$ 56,070	$ 56,224	$ 154
1940	Tools, Shop & Garage Equipment			$ -	$ 4,921,028	$ 1,286,544	$ 3,634,484	$ 474,390		0.00%	10.00	10.00%	$ -	$ 363,448	$ 23,720	$ 387,168	$ 441,144	$ 53,976
1945	Measurement & Testing Equipment			$ -	$ 209,467	$ 5,974	$ 203,493			0.00%	12.00	8.33%	$ -	$ 16,958	$ -	$ 16,958	$ 16,697	-$ 261
1950	Power Operated Equipment			$ -	$ 1,505,307	$ 131,713	$ 1,373,594			0.00%	13.00	7.69%	$ -	$ 105,661	$ -	$ 105,661	$ 102,206	-$ 3,455
1955	Communications Equipment			$ -	$ 19,755,052	$ 723,119	$ 19,031,933	$ 1,487,510		0.00%	9.00	11.11%	$ -	$ 2,114,659	$ 82,639	$ 2,197,299	$ 2,060,745	-$ 136,554
1955	Communication Equipment (Smart Meters)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1960	Miscellaneous Equipment			$ -	$ 212,362	$ 150,806	$ 61,556	$ 307,972		0.00%	10.00	10.00%	$ -	$ 6,156	$ 15,399	$ 21,554	$ 30,554	$ 9,000
1970	Load Management Controls Customer Premises			$ -	$ -		$ -	$ 350,910		0.00%	10.00	10.00%	$ -	$ -	$ 17,546	$ 17,546	$ 17,545	-$ 1
1975	Load Management Controls Utility Premises			$ -	$ -		$ -	$ 203,443		0.00%	10.00	10.00%	$ -	$ -	$ 10,172	$ 10,172	$ 10,172	-$ 0
1980	System Supervisor Equipment			$ -	$ 16,326,697	$ 1,370,361	$ 14,956,336	$ 1,701,727		0.00%	12.00	8.33%	$ -	$ 1,246,361	$ 70,905	$ 1,317,267	$ 1,292,876	-$ 24,391
1985	Miscellaneous Fixed Assets			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1990	Other Tangible Property			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
2440	Contributions & Grants			$ -	-$ 218,918,053		-$ 218,918,053	-$ 25,452,767		0.00%	30.00	3.33%	$ -	-$ 7,297,268	$ 424,213	-$ 7,721,481	-$ 8,012,479	-$ 290,998
1609	Capital Contributions Paid				$ 86,819,324		$ 86,819,324	$ 210,000		0.00%	45.00	2.22%	$ -	$ 1,929,318	$ 2,333	$ 1,931,652	$ 1,946,433	$ 14,781
	Total	$ -	$ -	$ -	$ 1,519,485,413	$ 45,117,897	$ 1,474,367,516	$ 124,685,374					$ -	$ 55,095,046	$ 2,700,949	$ 57,795,995	$ 56,698,553	-$ 1,097,442

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

Notes:

1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.

2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.

3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised CGAAP as at January 1 of the year of policy changes.

4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.

5 OEB policy of the "half-year" rule - the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.

6 The applicant must provide an explanation of material variances in evidence.

7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

UPDATED - Appendix 2-C
Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule Below
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.		MIFRS

2023

		Book Values							Service Lives				Depreciation Expense					
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change (Jan 1) 1	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
		a	b	c = a-b	d	e	f = d- e	g	h	i = 1/h	j	k = 1/j	l = c/h	m = f/j	n = g*0.5/j	o = l+m+n	p	q = p-o
1611	Computer Software (Formally known as Account 1925)			$ -	$ 93,003,225	$ 21,124,166	$ 71,879,059	$ 3,590,513		0.00%	8.00	12.50%	$ -	$ 8,984,882	$ 224,407	$ 9,209,289	$ 9,194,054	-$ 15,235
1612	Land Rights (Formally known as Account 1906)			$ -	$ 2,559,509	$ 4	$ 2,559,505	$ 12,296		0.00%	39.00	2.56%	$ -	$ 65,628	$ 158	$ 65,786	$ 60,014	-$ 5,772
1805	Land			$ -	$ 4,824,643		$ 4,824,643			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1808	Buildings			$ -	$ 39,485,516	$ 454,156	$ 39,031,360	$ 534,656		0.00%	43.00	2.33%	$ -	$ 907,706	$ 6,217	$ 913,923	$ 994,934	$ 81,011
1810	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1815	Transformer Station Equipment >50 kV			$ -	$ 152,607,887	$ 1,975,414	$ 150,632,473	$ 3,602,046		0.00%	30.00	3.33%	$ -	$ 5,021,082	$ 60,034	$ 5,081,117	$ 4,672,709	-$ 408,408
1820	Distribution Station Equipment <50 kV			$ -	$ 158,510,732	$ 5,850,976	$ 152,659,756	$ 4,126,157		0.00%	33.00	3.03%	$ -	$ 4,626,053	$ 62,518	$ 4,688,571	$ 4,863,301	$ 174,730
1825	Storage Battery Equipment			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1830	Poles, Towers & Fixtures			$ -	$ 163,801,124		$ 163,801,124	$ 9,876,018		0.00%	41.00	2.44%	$ -	$ 3,995,149	$ 120,439	$ 4,115,589	$ 4,081,762	-$ 33,827
1835	Overhead Conductors & Devices			$ -	$ 169,507,040	$ 329,139	$ 169,177,901	$13,582,445		0.00%	38.00	2.63%	$ -	$ 4,452,050	$ 178,716	$ 4,630,766	$ 4,586,713	-$ 44,053
1840	Underground Conduit			$ -	$ 287,971,670	$ 927,267	$ 287,044,403	$20,403,122		0.00%	37.00	2.70%	$ -	$ 7,757,957	$ 275,718	$ 8,033,675	$ 7,783,016	-$ 250,659
1845	Underground Conductors & Devices			$ -	$ 245,993,967	$ 1,879,195	$ 244,114,772	$18,820,790		0.00%	31.00	3.23%	$ -	$ 7,874,670	$ 303,561	$ 8,178,231	$ 7,871,614	-$ 306,617
1850	Line Transformers			$ -	$ 118,793,803	$ 77,452	$ 118,716,351	$ 7,823,557		0.00%	31.00	3.23%	$ -	$ 3,829,560	$ 126,186	$ 3,955,746	$ 3,854,763	-$ 100,983
1855	Services (Overhead & Underground)			$ -	$ 84,624,222	$ 44,179	$ 84,580,043	$ 4,595,931		0.00%	38.00	2.63%	$ -	$ 2,225,791	$ 60,473	$ 2,286,263	$ 2,207,425	-$ 78,838
1860	Meters			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1860	Meters (Smart Meters)			$ -	$ 63,967,085	$ 12,660,967	$ 51,306,118	$ 6,673,267		0.00%	13.00	7.69%	$ -	$ 3,946,624	$ 256,664	$ 4,203,289	$ 3,930,943	-$ 272,346
1905	Land			$ -	$ 19,942,005		$ 19,942,005			0.00%		0.00%	$ -	$ -	$ -	$ -	$ 4,047	$ 4,047
1908	Buildings & Fixtures			$ -	$ 96,951,122	$ 458,254	$ 96,492,868	$ 352,679		0.00%	31.00	3.23%	$ -	$ 3,112,673	$ 5,688	$ 3,118,362	$ 3,197,517	$ 79,155
1910	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1915	Office Furniture & Equipment (10 years)			$ -	$ 4,596,636	$ 974,302	$ 3,622,334	$ 50,383		0.00%	10.00	10.00%	$ -	$ 362,233	$ 2,519	$ 364,753	$ 400,102	$ 35,349
1915	Office Furniture & Equipment (5 years)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equipment - Hardware			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 22/04)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 19/07)			$ -	$ 15,487,763	$ 3,588,003	$ 11,899,760	$ 1,160,674		0.00%	7.00	14.29%	$ -	$ 1,699,966	$ 82,905	$ 1,782,871	$ 2,042,539	$ 259,668
1930	Transportation Equipment			$ -	$ 26,471,525	$ 5,136,421	$ 21,335,104	$ 2,233,064		0.00%	11.00	9.09%	$ -	$ 1,939,555	$ 101,503	$ 2,041,058	$ 1,991,963	-$ 49,095
1935	Stores Equipment			$ -	$ 560,703		$ 560,703			0.00%	10.00	10.00%	$ -	$ 56,070	$ -	$ 56,070	$ 56,224	$ 154
1940	Tools, Shop & Garage Equipment			$ -	$ 5,395,418	$ 1,698,582	$ 3,696,836	$ 461,809		0.00%	10.00	10.00%	$ -	$ 369,684	$ 23,090	$ 392,774	$ 442,658	$ 49,884
1945	Measurement & Testing Equipment			$ -	$ 209,467	$ 119,814	$ 89,653			0.00%	12.00	8.33%	$ -	$ 7,471	$ -	$ 7,471	$ 5,066	-$ 2,405
1950	Power Operated Equipment			$ -	$ 1,505,307	$ 325,124	$ 1,180,183	$ 115,377		0.00%	13.00	7.69%	$ -	$ 90,783	$ 4,438	$ 95,221	$ 82,798	-$ 12,423
1955	Communications Equipment			$ -	$ 21,242,562	$ 967,826	$ 20,274,736	$ 874,903		0.00%	9.00	11.11%	$ -	$ 2,252,748	$ 48,606	$ 2,301,354	$ 2,173,813	-$ 127,541
1955	Communication Equipment (Smart Meters)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1960	Miscellaneous Equipment			$ -	$ 520,334	$ 166,402	$ 353,932	$ 16,787		0.00%	10.00	10.00%	$ -	$ 35,393	$ 839	$ 36,233	$ 43,258	$ 7,025
1970	Load Management Controls Customer Premises			$ -	$ 350,910		$ 350,910			0.00%	10.00	10.00%	$ -	$ 35,091	$ -	$ 35,091	$ 35,091	$ -
1975	Load Management Controls Utility Premises			$ -	$ 203,443		$ 203,443			0.00%	10.00	10.00%	$ -	$ 20,344	$ -	$ 20,344	$ 20,344	-$ 0
1980	System Supervisor Equipment			$ -	$ 18,028,424	$ 2,469,888	$ 15,558,536	$ 992,743		0.00%	12.00	8.33%	$ -	$ 1,296,545	$ 41,364	$ 1,337,909	$ 1,274,267	-$ 63,642
1985	Miscellaneous Fixed Assets			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1990	Other Tangible Property			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
2440	Contributions & Grants			$ -	-$ 243,771,082		-$ 243,771,082	-$21,345,516		0.00%	30.00	3.33%	$ -	-$ 8,125,703	-$ 355,759	-$ 8,481,461	-$ 8,806,490	-$ 325,029
1609	Capital Contributions Paid				$ 87,029,324		$ 87,029,324	$ 100,000		0.00%	45.00	2.22%	$ -	$ 1,933,985	$ 1,111	$ 1,935,096	$ 1,950,895	$ 15,799
	Total	$ -	$ -	$ -	$ 1,640,374,285	$ 61,227,531	$ 1,579,146,754	$ 78,653,701					$ -	$ 58,773,993	$ 1,631,397	$ 60,405,390	$ 59,015,340	-$ 1,390,050

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

Notes:

1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.

2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.

3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised CGAAP as at January 1 of the year of policy changes.

4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.

5 OEB policy of the "half-year" rule - the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.

6 The applicant must provide an explanation of material variances in evidence.

7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

UPDATED - Appendix 2-C
Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.		MIFRS

2024

		Book Values							Service Lives				Depreciation Expense					
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
		a	b	c = a-b	d	e	f = d- e	g	h	i = 1/h	j	k = 1/j	l = c/h	m = f/j	n = g*0.5/j	o = l+m+n	p	q = p-o
1611	Computer Software (Formally known as Account 1925)			$ -	$ 96,593,738	$ 22,235,713	$ 74,358,025	$ 2,672,828		0.00%	8.00	12.50%	$ -	$ 9,294,753	$ 167,052	$ 9,461,805	$ 9,617,635	$ 155,830
1612	Land Rights (Formally known as Account 1906)			$ -	$ 2,571,805	$ 4	$ 2,571,801	$ 12,370		0.00%	39.00	2.56%	$ -	$ 65,944	$ 159	$ 66,102	$ 60,424	-$ 5,678
1805	Land			$ -	$ 4,824,643		$ 4,824,643			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1808	Buildings			$ -	$ 40,020,172	$ 468,898	$ 39,551,274	$ 930,941		0.00%	43.00	2.33%	$ -	$ 919,797	$ 10,825	$ 930,622	$ 1,019,266	$ 88,644
1810	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1815	Transformer Station Equipment >50 kV			$ -	$ 156,209,933	$ 2,130,709	$ 154,079,224	$ 5,429,195		0.00%	32.00	3.13%	$ -	$ 4,814,976	$ 84,831	$ 4,899,807	$ 4,810,909	-$ 88,898
1820	Distribution Station Equipment <50 kV			$ -	$ 162,540,708	$ 6,590,398	$ 155,950,310	$11,994,416		0.00%	34.00	2.94%	$ -	$ 4,586,774	$ 176,388	$ 4,763,162	$ 5,000,717	$ 237,555
1825	Storage Battery Equipment			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1830	Poles, Towers & Fixtures			$ -	$ 173,363,439		$ 173,363,439	$ 8,186,322		0.00%	41.00	2.44%	$ -	$ 4,228,377	$ 99,833	$ 4,328,210	$ 4,291,482	-$ 36,728
1835	Overhead Conductors & Devices			$ -	$ 182,858,941	$ 465,400	$ 182,393,541	$11,967,313		0.00%	38.00	2.63%	$ -	$ 4,799,830	$ 157,465	$ 4,957,295	$ 4,917,860	-$ 39,435
1840	Underground Conduit			$ -	$ 308,374,792	$ 1,225,613	$ 307,149,179	$18,547,382		0.00%	37.00	2.70%	$ -	$ 8,301,329	$ 250,640	$ 8,551,969	$ 8,246,543	-$ 305,426
1845	Underground Conductors & Devices			$ -	$ 264,455,688	$ 2,230,916	$ 262,224,772	$17,644,613		0.00%	32.00	3.13%	$ -	$ 8,194,524	$ 275,697	$ 8,470,221	$ 8,377,879	-$ 92,342
1850	Line Transformers			$ -	$ 126,396,793	$ 240,236	$ 126,156,557	$ 7,349,154		0.00%	31.00	3.23%	$ -	$ 4,069,566	$ 118,535	$ 4,188,101	$ 4,055,629	-$ 132,472
1855	Services (Overhead & Underground)			$ -	$ 89,220,153	$ 44,179	$ 89,175,974	$ 4,435,769		0.00%	39.00	2.56%	$ -	$ 2,286,563	$ 56,869	$ 2,343,432	$ 2,312,462	-$ 30,970
1860	Meters			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1860	Meters (Smart Meters)			$ -	$ 69,685,044	$ 20,217,128	$ 49,467,916	$ 7,261,510		0.00%	14.00	7.14%	$ -	$ 3,533,423	$ 259,340	$ 3,792,762	$ 3,798,330	$ 5,568
1905	Land			$ -	$ 19,942,005		$ 19,942,005			0.00%		0.00%	$ -	$ -	$ -	$ -	$ 4,047	$ 4,047
1908	Buildings & Fixtures			$ -	$ 97,303,801	$ 459,258	$ 96,844,543	$ 352,679		0.00%	31.00	3.23%	$ -	$ 3,124,018	$ 5,688	$ 3,129,706	$ 3,216,137	$ 86,431
1910	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1915	Office Furniture & Equipment (10 years)			$ -	$ 4,647,019	$ 1,129,556	$ 3,517,463	$ 50,383		0.00%	10.00	10.00%	$ -	$ 351,746	$ 2,519	$ 354,265	$ 394,788	$ 40,523
1915	Office Furniture & Equipment (5 years)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equipment - Hardware			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 22/04)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 19/07)			$ -	$ 16,648,437	$ 5,507,530	$ 11,140,907	$ 887,744		0.00%	6.00	16.67%	$ -	$ 1,856,818	$ 73,979	$ 1,930,797	$ 1,973,655	$ 42,859
1930	Transportation Equipment			$ -	$ 27,203,561	$ 6,842,384	$ 20,361,177	$ 1,844,412		0.00%	10.00	10.00%	$ -	$ 2,036,118	$ 92,221	$ 2,128,338	$ 2,033,557	-$ 94,781
1935	Stores Equipment			$ -	$ 560,703		$ 560,703			0.00%	10.00	10.00%	$ -	$ 56,070	$ -	$ 56,070	$ 56,225	$ 155
1940	Tools, Shop & Garage Equipment			$ -	$ 5,857,227	$ 2,099,310	$ 3,757,917	$ 464,863		0.00%	10.00	10.00%	$ -	$ 375,792	$ 23,243	$ 399,035	$ 452,760	$ 53,725
1945	Measurement & Testing Equipment			$ -	$ 209,467	$ 213,881	-$ 4,414			0.00%	12.00	8.33%	$ -	-$ 368	$ -	-$ 368	$ 130	$ 498
1950	Power Operated Equipment			$ -	$ 1,620,684	$ 376,611	$ 1,244,073			0.00%	13.00	7.69%	$ -	$ 95,698	$ -	$ 95,698	$ 87,380	-$ 8,318
1955	Communications Equipment			$ -	$ 22,117,465	$ 1,255,667	$ 20,861,798	$ 781,255		0.00%	10.00	10.00%	$ -	$ 2,086,180	$ 39,063	$ 2,125,243	$ 2,136,078	$ 10,835
1955	Communication Equipment (Smart Meters)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1960	Miscellaneous Equipment			$ -	$ 537,121	$ 215,901	$ 321,220			0.00%	10.00	10.00%	$ -	$ 32,122	$ -	$ 32,122	$ 41,268	$ 9,146
1970	Load Management Controls Customer Premises			$ -	$ 350,910		$ 350,910			0.00%	10.00	10.00%	$ -	$ 35,091	$ -	$ 35,091	$ 35,091	$ -
1975	Load Management Controls Utility Premises			$ -	$ 203,443		$ 203,443			0.00%	10.00	10.00%	$ -	$ 20,344	$ -	$ 20,344	$ 20,344	-$ 0
1980	System Supervisor Equipment			$ -	$ 19,021,167	$ 3,775,713	$ 15,245,454	$ 1,094,855		0.00%	14.00	7.14%	$ -	$ 1,088,961	$ 39,102	$ 1,128,063	$ 1,082,628	-$ 45,435
1985	Miscellaneous Fixed Assets			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1990	Other Tangible Property			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
2440	Contributions & Grants			$ -	-$ 264,756,598		-$ 264,756,598	-$20,689,619		0.00%	30.00	3.33%	$ -	-$ 8,825,220	-$ 344,827	-$ 9,170,047	-$ 9,416,952	-$ 246,905
1609	Capital Contributions Paid				$ 87,129,324		$ 87,129,324	$ 2,130,000		0.00%	45.00	2.22%	$ -	$ 1,936,207	$ 23,667	$ 1,959,874	$ 1,958,654	-$ 1,220
	Total	$ -	$ -	$ -	$ 1,715,711,586	$ 77,725,005	$ 1,637,986,581	$ 83,348,385					$ -	$ 59,365,432	$ 1,612,288	$ 60,977,720	$ 60,584,926	-$ 392,794

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

Notes:

1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.

2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.

3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised CGAAP as at January 1 of the year of policy changes.

4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.

5 OEB policy of the "half-year" rule - the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.

6 The applicant must provide an explanation of material variances in evidence.

7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

8 This should include assets in column D (excel column F) that have become fully depreciated. The amount input in e (excel column G) should equal the gross book value of the asset

UPDATED - Appendix 2-C
Depreciation and Amortization Expense

This appendix is to be completed in conjunction with the accounting instructions in Appendix 2-B

Scenario that applies	Applicable Years and Accounting Standard	Year Reflected in Schedule Below	Accounting Standard Reflected in Schedule Below
Rebasing for the first time with depreciation policy changes made in 2012.	This appendix must be duplicated and completed for the years 2012 to 2021. The appendix for 2012 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2012 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Rebasing for the first time with depreciation policy changes made in 2013.	This appendix must be duplicated and completed for the years 2013 to 2021. The appendix for 2013 is to be completed under CGAAP (prior to changes in depreciation policies). The appendix for 2013 to 2014 must be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased with depreciation policy changes in a prior rate application and rebasing MIFRS for the first time.	This appendix must be completed for 2014 to 2021. The appendix for 2014 is to be completed under Revised CGAAP (after changes in depreciation policies). The appendix for 2014 to 2021 is to be completed under MIFRS (2014 if changes to MIFRS are material).		
Already rebased under MIFRS in a prior rate application	This appendix must be completed under MIFRS for each year for the earlier of: 1) all historical years back to its last rebasing; or 2) at least three years of historical actuals, in addition to Bridge Year and Test Year forecasts.		MIFRS

2025

		Book Values							Service Lives				Depreciation Expense					
Account	Description	Opening Net Book Value of Existing Assets as at Date of Policy Change (Jan 1) 1	Less Fully Depreciated 7	Net Amount of Existing Assets Before Policy Change to be Depreciated	Opening Gross Book Value of Assets Acquired After Policy Change 2	Less Fully Depreciated 8	Net Amount of Assets Acquired After Policy Change to be Depreciated	Current Year Additions	Average Remaining Life of Assets Existing Before Policy Change 3	Depreciation Rate Assets Acquired After Policy Change	Life of Assets Acquired After Policy Change 4	Depreciation Rate on New Additions	Depreciation Expense on Assets Existing Before Policy Change	Depreciation Expense on Assets Acquired After Policy Change	Depreciation Expense on Current Year Additions 5	Total Current Year Depreciation Expense	Depreciation Expense per Appendix 2-BA Fixed Assets, Column J	Variance 6
		a	b	c = a-b	d	e	f = d- e	g	h	i = 1/h	j	k = 1/j	l = c/h	m = f/j	n = g*0.5/j	o = l+m+n	p	q = p-o
1611	Computer Software (Formally known as Account 1925)			$ -	$ 99,266,566	$ 23,064,208	$ 76,202,358	$16,854,811		0.00%	8.00	12.50%	$ -	$ 9,525,295	$ 1,053,426	$ 10,578,720	$ 11,048,698	$ 469,978
1612	Land Rights (Formally known as Account 1906)			$ -	$ 2,584,175	$ 4	$ 2,584,171	$ 12,376		0.00%	39.00	2.56%	$ -	$ 66,261	$ 159	$ 66,419	$ 60,507	-$ 5,912
1805	Land			$ -	$ 4,824,643		$ 4,824,643	$ 779,683		0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1808	Buildings			$ -	$ 40,951,113	$ 493,054	$ 40,458,059	$ 1,416,046		0.00%	40.00	2.50%	$ -	$ 1,011,451	$ 17,701	$ 1,029,152	$ 1,046,267	$ 17,115
1810	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1815	Transformer Station Equipment >50 kV			$ -	$ 161,639,128	$ 2,262,273	$ 159,376,855	$ 9,223,210		0.00%	32.00	3.13%	$ -	$ 4,980,527	$ 144,113	$ 5,124,639	$ 5,003,121	-$ 121,518
1820	Distribution Station Equipment <50 kV			$ -	$ 174,438,943	$ 6,858,571	$ 167,580,372	$26,747,897		0.00%	35.00	2.86%	$ -	$ 4,788,011	$ 382,113	$ 5,170,123	$ 5,417,445	$ 247,322
1825	Storage Battery Equipment			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1830	Poles, Towers & Fixtures			$ -	$ 181,236,058		$ 181,236,058	$ 8,003,940		0.00%	41.00	2.44%	$ -	$ 4,420,392	$ 97,609	$ 4,518,001	$ 4,462,353	-$ 55,648
1835	Overhead Conductors & Devices			$ -	$ 194,595,710	$ 562,686	$ 194,033,024	$11,674,276		0.00%	38.00	2.63%	$ -	$ 5,106,132	$ 153,609	$ 5,259,741	$ 5,217,477	-$ 42,264
1840	Underground Conduit			$ -	$ 326,922,174	$ 1,696,920	$ 325,225,254	$18,528,470		0.00%	37.00	2.70%	$ -	$ 8,789,872	$ 250,385	$ 9,040,256	$ 8,650,400	-$ 389,856
1845	Underground Conductors & Devices			$ -	$ 281,741,232	$ 2,700,678	$ 279,040,554	$17,532,469		0.00%	32.00	3.13%	$ -	$ 8,720,017	$ 273,945	$ 8,993,962	$ 8,839,416	-$ 154,546
1850	Line Transformers			$ -	$ 133,525,380	$ 561,969	$ 132,963,411	$ 7,363,590		0.00%	32.00	3.13%	$ -	$ 4,155,107	$ 115,056	$ 4,270,163	$ 4,226,186	-$ 43,977
1855	Services (Overhead & Underground)			$ -	$ 93,655,922	$ 50,484	$ 93,605,438	$ 4,429,274		0.00%	40.00	2.50%	$ -	$ 2,340,136	$ 55,366	$ 2,395,502	$ 2,357,841	-$ 37,661
1860	Meters			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1860	Meters (Smart Meters)			$ -	$ 75,943,039	$ 24,306,431	$ 51,636,608	$ 6,783,965		0.00%	14.00	7.14%	$ -	$ 3,688,329	$ 242,284	$ 3,930,614	$ 3,974,133	$ 43,519
1905	Land			$ -	$ 19,942,005		$ 19,942,005			0.00%		0.00%	$ -	$ -	$ -	$ -	$ 4,047	$ 4,047
1908	Buildings & Fixtures			$ -	$ 97,656,480	$ 644,160	$ 97,012,320	$ 352,679		0.00%	31.00	3.23%	$ -	$ 3,129,430	$ 5,688	$ 3,135,118	$ 3,204,028	$ 68,910
1910	Leasehold Improvements			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1915	Office Furniture & Equipment (10 years)			$ -	$ 4,697,402	$ 1,195,926	$ 3,501,476	$ 50,383		0.00%	10.00	10.00%	$ -	$ 350,148	$ 2,519	$ 352,667	$ 392,323	$ 39,656
1915	Office Furniture & Equipment (5 years)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equipment - Hardware			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 22/04)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1920	Computer Equip.-Hardware(Post Mar. 19/07)			$ -	$ 17,536,181	$ 6,482,634	$ 11,053,547	$ 1,573,599		0.00%	7.00	14.29%	$ -	$ 1,579,078	$ 112,400	$ 1,691,478	$ 1,958,576	$ 267,098
1930	Transportation Equipment			$ -	$ 28,100,981	$ 8,025,548	$ 20,075,433	$ 467,753		0.00%	9.00	11.11%	$ -	$ 2,230,604	$ 25,986	$ 2,256,590	$ 2,158,407	-$ 98,183
1935	Stores Equipment			$ -	$ 560,703		$ 560,703			0.00%	10.00	10.00%	$ -	$ 56,070	$ -	$ 56,070	$ 56,224	$ 154
1940	Tools, Shop & Garage Equipment			$ -	$ 6,322,090	$ 2,415,709	$ 3,906,381	$ 468,679		0.00%	10.00	10.00%	$ -	$ 390,638	$ 23,434	$ 414,072	$ 461,217	$ 47,145
1945	Measurement & Testing Equipment			$ -	$ 209,467	$ 214,417	-$ 4,950			0.00%	10.00	10.00%	$ -	-$ 495	$ -	-$ 495	$ 103	$ 598
1950	Power Operated Equipment			$ -	$ 1,620,684	$ 394,085	$ 1,226,599	$ 461,909		0.00%	16.00	6.25%	$ -	$ 76,662	$ 14,435	$ 91,097	$ 89,388	-$ 1,709
1955	Communications Equipment			$ -	$ 22,898,720	$ 3,142,403	$ 19,756,317	$ 1,733,822		0.00%	11.00	9.09%	$ -	$ 1,796,029	$ 78,810	$ 1,874,839	$ 1,885,121	$ 10,282
1955	Communication Equipment (Smart Meters)			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1960	Miscellaneous Equipment			$ -	$ 537,121	$ 220,993	$ 316,128	$ 24,987		0.00%	10.00	10.00%	$ -	$ 31,613	$ 1,249	$ 32,862	$ 41,830	$ 8,968
1970	Load Management Controls Customer Premises			$ -	$ 350,910		$ 350,910			0.00%	10.00	10.00%	$ -	$ 35,091	$ -	$ 35,091	$ 35,091	$ -
1975	Load Management Controls Utility Premises			$ -	$ 203,443		$ 203,443			0.00%	10.00	10.00%	$ -	$ 20,344	$ -	$ 20,344	$ 20,344	-$ 0
1980	System Supervisor Equipment			$ -	$ 20,116,022	$ 4,768,457	$ 15,347,565	$ 1,533,324		0.00%	15.00	6.67%	$ -	$ 1,023,171	$ 51,111	$ 1,074,282	$ 1,081,462	$ 7,180
1985	Miscellaneous Fixed Assets			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
1990	Other Tangible Property			$ -			$ -			0.00%		0.00%	$ -	$ -	$ -	$ -		$ -
2440	Contributions & Grants			$ -	-$ 285,076,217		-$ 285,076,217	-$20,758,380		0.00%	31.00	3.23%	$ -	-$ 9,196,007	-$ 334,813	-$ 9,530,820	-$ 9,805,553	-$ 274,733
1609	Capital Contributions Paid				$ 89,259,324		$ 89,259,324	$ 7,300,000		0.00%	45.00	2.22%	$ -	$ 1,983,541	$ 81,111	$ 2,064,652	$ 2,013,783	-$ 50,869
	Total	$ -	$ -	$ -	$ 1,796,259,400	$ 90,061,610	$ 1,706,197,790	$ 122,558,762					$ -	$ 61,097,445	$ 2,847,695	$ 63,945,141	$ 63,900,235	-$ 44,906

General: Applicants are to complete this appendix to show the reasonability of the depreciation expense that is included in rate base via. Accumulated depreciation and the revenue requirement.

Applicants must provide a breakdown of depreciation and amortization expense in the above format for all relevant accounts. Balances presented in the table should exclude asset retirement obligations (AROs) and the related depreciation and accretion expense. These should be disclosed separately consistent with the Notes of historical Audited Financial

Notes:

1 This is the net book value of assets that existed as at the date of the utility's change in depreciation policies (i.e. as at Jan. 1, 2012 or Jan. 1, 2013). These assets are to be depreciated at the average remaining service life. This amount will not change in years subsequent to the date of the utility's change in depreciation policies. This column is expected to be used until the assets that existed as at the date of the utility's change in depreciation policies are fully depreciated.

2 This is the opening gross book value of assets that have been acquired after the date of the utility's change in depreciation policies (i.e. additions starting in 2012/2013 for those who changed policies Jan. 1, 2012/2013). These assets are to be depreciated at the revised service life. The amount is expected to be equal to the opening gross book value of the prior year plus the prior year's additions.

3 A recalculation should be performed to determine the average remaining life of opening balance of assets (i.e. excluding current year's additions) under the change in policies under CGAAP. For example, Asset A had a useful life of 20 years under CGAAP without the change in policies. On January 1 of the year of policy changes, Asset A was 3 years depreciated. As a result, Asset A would have a remaining service life of 17 years (20 years less 3 years) as at January 1 of the year of policy changes. Due to making the change in policies under CGAAP, management re-assessed the asset useful lives and concluded that the revised useful life of Asset A is now 30 years. Therefore, the average remaining useful life of the opening balance of Asset A is determined to be 27 years (30 years less 3 years) under the revised CGAAP as at January 1 of the year of policy changes.

4 The useful life used should be consistent with the OEB's regulatory accounting policies as set out in the Accounting Procedures Handbook for Electricity Distributors, effective Jan. 1, 2012 and also with the Report of the Board, Transition to International Financial Reporting Standards, EB-2008-0408, and the Kinectrics Report.

5 OEB policy of the "half-year" rule - the applicant must ensure that additions in the year attract a half-year depreciation expense in the first year. Deviations from this standard practice must be supported in the application.

6 The applicant must provide an explanation of material variances in evidence.

7 This should include assets in column A (excel column C) that become fully depreciated since the date of the policy change. The amount input in b (excel column D) should equal the net book value of the asset as at the date of depreciation policy change

UPDATED PAYMENTS IN LIEU OF TAXES

1. INTRODUCTION

Hydro Ottawa is required to make Payments in Lieu of Taxes ("PILS") to the Ministry of Finance based on its taxable income. Hydro Ottawa has used the Income Tax/PILS Workform (the "PILS Tax Model") supplied by the OEB for 2020 Cost of Service Applications Filers to calculate the PILS for each of the 2021-2025 Test Years.

The amount of PILS included in the revenue requirements for each of the 2021-2025 Test Years is summarized in Table 1, as updated below. The OEB Income Tax/PILS Workforms for the 2021-2025 Test Years are appended to this Schedule as the following UPDATED Attachments:

- UPDATED Attachment 4-4-1(D): OEB Workform - 2021 Income Tax/PILS Workform
- UPDATED Attachment 4-4-1(E): OEB Workform - 2022 Income Tax/PILS Workform
- UPDATED Attachment 4-4-1(F): OEB Workform - 2023 Income Tax/PILS Workform
- UPDATED Attachment 4-4-1(G): OEB Workform - 2024 Income Tax/PILS Workform
- UPDATED Attachment 4-4-1(H): OEB Workform - 2024 Income Tax/PILS Workform

Table 1 – AS ORIGINALLY SUBMITTED – Corporate PILS for Test Years 2021-2025 ($'000s)

Test Year	Income Taxes/PILS Grossed Up
2021	$1,024
2022	$5,211
2023	$8,766
2024	$11,660
2025	$7,689

Table 1 – UPDATED FOR 2019 ACTUALS – Corporate PILS for Test Years 2021-2025 ($'000s)

Test Year	Income Taxes/PILS Grossed Up
2021	$2,224
2022	$3,881
2023	$8,604
2024	$11,533
2025	$7,590

No modifications have been made to the PILS Tax Models, with the exception of the following:

- Capital Cost Allowance ("CCA") has been calculated using the new Accelerated Investment Incentive rules ("accelerated CCA") for all Test Years 2021-2025. (See section 6 below for more details on the new rules).

  However, for Tab T8 "Sch 8 CCA Test," the limitation of those schedules in Tab 8 required that the accelerated CCA be adjusted manually for Test Years 2024 and 2025 only. Hydro Ottawa has included supplemental Schedule 8 worksheets for Test Years

2024 and 2025 to support the CCA calculations in the PILS Tax Models (please see UPDATED Attachment 4-4-1(I): 2024 Schedule 8 Capital Cost Allowance and UPDATED Attachment 4-4-1(J): 2025 Schedule 8 Capital Cost Allowance.

2. PRUDENT MANAGEMENT OF PILS/TAXES

Hydro Ottawa exercises sound tax planning and manages its tax costs diligently in order to minimize these costs. As required, the utility maximizes tax deductions and takes advantage of available tax credits, such as apprentice tax credits, student co-op tax credits, and scientific research and experimental development ("SR&ED") tax credits.

3. GENERAL METHODOLOGY

The methodology for calculating PILS is consistent with the principles set out in the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019. It is also consistent with the methodology employed in prior years. In addition, PILS calculations reflect applicable current tax legislation and regulatory changes, including the recent legislative tax changes to CCA in Bill C-97, which are further discussed in section 6 below.

For Test Years 2021-2025, Hydro Ottawa has used a combined income tax rate of 26.5%, which is comprised of a federal tax rate of 15.0% and a provincial tax rate of 11.5%. This rate is applied to Hydro Ottawa's regulatory taxable income determined through the PILS Tax Models to calculate income taxes payable before the deduction of tax credits. Applicable tax credits are then deducted to determine the Corporate PILS/Income Tax Provision for the given Test Year. This amount is then grossed up by the 1 - tax rate formula to determine the PILS component of the revenue requirement for each Test Year.

4. LOSS CARRY-FORWARDS

Hydro Ottawa does not have any non-capital loss or capital loss carry-forwards as at the end of December 2018. Furthermore, the utility has not forecast any loss carry-forwards for the 2021-2025 Test Years.

5. NON-DISTRIBUTION ASSETS/NON-RECOVERABLE EXPENSES

Hydro Ottawa has excluded any non-distribution assets in its PILS Tax Models. The utility also confirms that non-recoverable expenses and expenses disallowed for regulatory purposes have been excluded in the tax calculation.

6. CAPITAL COST ALLOWANCE

On June 21, 2019, Bill C-97 received Royal Assent. Bill C-97, the *Budget Implementation Act, 2019*, introduced changes to CCA, such as the new accelerated CCA rules. These rules allow enhanced first-year tax depreciation on eligible capital assets acquired and available for use after November 20, 2018. Under the accelerated CCA rules, Hydro Ottawa is able to deduct up to three times the amount of tax depreciation that would otherwise be available in the year that an asset is acquired and available for use. This is achieved by removing the “half-year” rule and then applying the prescribed CCA rate at 1.5 times on the net qualifying additions for the given year. This accelerated CCA is available for assets acquired and available for use after November 20, 2018 and before 2024.

A phase-out period will begin for property that becomes available for use after 2023. For assets acquired after 2023 and before 2028, the “half-year” rule is still not applied and the accelerated CCA rules will allow Hydro Ottawa to deduct tax depreciation that is two times the amount of tax depreciation that would otherwise apply in the year that an asset is acquired and available for use. The accelerated CCA rules will no longer be available for assets acquired after 2027.

Accelerated CCA does not change the total amount of CCA that Hydro Ottawa can deduct over the tax life of the eligible capital assets. This accelerated CCA is only available to be claimed in

the first tax year that the eligible capital assets are acquired and available for use. By claiming a larger CCA deduction in the first year, Hydro Ottawa will have smaller CCA deductions available in future years. The utility confirms that the accelerated CCA rules from Bill C-97 have been applied in the PILS Tax Models for the 2021-2025 Test Years.

The regulatory taxable income in each Test Year includes forecasted CCA, which has been calculated using the accelerated CCA rules applicable in the Historical Years, Bridge Years, and in each Test Year. These forecasted CCA amounts are calculated using the estimated ending Undepreciated Capital Cost ("UCC") balance from the previous year as the opening balance and then adding the net capital additions to determine the UCC balance available for each Test Year. The "half-year" rule has not been applied in each of the 2021-2025 Test Years on net qualifying additions. The accelerated CCA rules allow Hydro Ottawa to deduct three times the amount of tax depreciation that would otherwise apply on qualifying new assets for the 2021, 2022, and 2023 Test Years. These rules also allow Hydro Ottawa to deduct two times the amount of tax depreciation that would otherwise apply on qualifying new assets for the 2024 and 2025 Test Years. Using the new accelerated CCA rules, the maximum allowable CCA has been deducted for all Test Years 2021-2025.

7. TAX CREDITS – APPRENTICES & CO-OP STUDENTS

As in previous years, Hydro Ottawa continues to claim the Federal Apprenticeship Job Creation Tax Credit and the Ontario Co-operative Education Tax Credit. The Federal Apprenticeship Job Creation Tax Credit is 10% of salaries and wages paid to eligible apprentices, up to a maximum of $2,000 per year per apprentice for the first two years of the apprenticeship contract. The Ontario Co-operative Education Tax Credit is 25% of eligible expenditures up to a maximum of $3,000 per student per year.

The Ontario Apprenticeship Training Tax Credit is no longer available and has not been included in Test Years 2021-2025. This credit was available during the first 36 months of the apprentice

program for programs that commenced before November 15, 2017. The 2020 Bridge Year is forecasted as the last year in which Hydro Ottawa can claim this credit.

Hydro Ottawa has forecasted the Federal Apprenticeship Job Creation and Ontario Co-operative Education Tax Credits available and has deducted these tax credits in the PILS Tax Models for the Test Years 2021-2025, as summarized in Table 2 and Table 3 below.

Table 2 – Total Federal Apprenticeship Job Creation and Ontario Co-operative Education Tax Credits for 2021-2025

Year	Federal Apprenticeship Tax Credit	Ontario Apprenticeship Tax Credit	Ontario Co-op Education Tax Credit	Total Tax Credits Claimed
2021	$4,000	$0	$81,000	$85,000
2022	$4,000	$0	$81,000	$85,000
2023	$4,000	$0	$81,000	$85,000
2024	$4,000	$0	$81,000	$85,000
2025	$4,000	$0	$81,000	$85,000

Table 3 – Federal Apprenticeship Job Creation Tax Credits for 2021-2025[1]

Hiring Year		Tax Credits Received				
Year	Number Hired	2021	2022	2023	2024	2025
2020	2	2				
2021	0					
2022	2		2	2		
2023	0					
2024	2				2	2
2025	0					
TOTAL NUMBER OF CREDITS/YR		**2**	**2**	**2**	**2**	**2**
TOTAL $$ CREDITS/YR		**$4,000**	**$4,000**	**$4,000**	**$4,000**	**$4,000**

[1] As a guide for interpreting the information presented in this table, please see the explanation of the applicability of the Federal Apprenticeship Job Creation Tax Credit provided in section 7 on page ~~4~~ 5 of this Schedule.

The Ontario Co-operative Education Tax Credit for each of the Test Years 2021-2025 has been calculated by forecasting that 27 eligible co-op students will be hired per Test Year, with a tax credit per student of $3,000 (i.e. total credits of $81,000 per Test Year).

8. TAX CREDITS – SCIENTIFIC RESEARCH & EXPERIMENTAL DEVELOPMENT

Hydro Ottawa first filed SR&ED tax credits for the 2017 tax year. The 2017 SR&ED tax credits have been assessed but not audited. For the Test Years 2021-2025, the SR&ED tax credits have been forecasted based on the 2017 SR&ED tax calculations, as outlined in Table 4 below. The forecasted SR&ED tax credits have been reflected as a reduction in the capital expenditures and/or operations and maintenance ("O&M") expenses in each Test Year.

Table 4 – Total SR&ED Tax Credits for 2021-2025

Year	SR&ED Credit Capital	SR&ED Credit O&M	SR&ED Credit Total
2021	$360,000	$90,000	$450,000
2022	$340,000	$90,000	$430,000
2023	$230,000	$60,000	$290,000
2024	$390,000	$100,000	$490,000
2025	$480,000	$120,000	$600,000

9. INTEGRITY CHECKS

The following integrity checks have been completed in respect of the PILS Tax Models:

- Depreciation and amortization added back agrees with the numbers disclosed in the rate base section of the Application.
- Capital additions and deductions agree with the rate base section for Historical Years, Bridge Years, and Test Years.

- Schedule 8 of the most recent tax return year filed with the Application has a closing December 31 UCC balance that agrees with the opening historical year UCC balance at January 1.
- Non-distribution assets have been removed from the PILS Tax Models.
- The CCA deductions in the PILS Tax Models for Historical Years, Bridge Years, and Test Years agree with the numbers in Schedule 8.
- Other post-employment benefits and pension expenses are added back on Schedule 1.
- The income tax rate used to calculate the tax expense is consistent with the current legislated rate.
- The maximum allowable CCA has been deducted for all Test Years 2021-2025.

10. PILS VARIANCES

Details of the actual taxes paid by Hydro Ottawa from 2016-2018, as well as the forecasted taxes to be paid for 2019 and 2020, are summarized in Table 5, as updated below. Expected PILS for the 2021-2025 rate period are set out in Table 6, as updated below. In addition, explanations of the variances that appear in either table are provided.

Copies of Hydro Ottawa's tax returns are appended to this Schedule as the following Attachments:

- Attachment 4-4-1(A): 2016 Tax Return
- Attachment 4-4-1(B): 2017 Tax Return[2]
- Attachment 4-4-1(C): 2018 Tax Return

[2] Attachment 4-4-1(B): 2017 Tax Return includes both the originally filed tax return as well as the amended return for the SR&ED claim.

Table 5 – AS ORIGINALLY SUBMITTED – Corporate PILS Paid/Payable for 2016-2020 ($'000s)

	2016 Actual	2017 Actual	2017 Amended	2018 Actual	2019 Bridge Grossed Up	2020 Bridge Grossed Up
Income Taxes	$3,452	$3,594	$2,245	$4,192	$1,644	$2,362

Table 5 – UPDATED FOR 2019 ACTUALS – Corporate PILS Paid/Payable for 2016-2020 ($'000s)

	2016 Actual	2017 Actual	2017 Amended	2018 Actual	2019 Actual Grossed Up	2020 Bridge Grossed Up
Income Taxes	$3,452	$3,594	$2,245	$4,192	$2,775	$1,394

Table 6 – AS ORIGINALLY SUBMITTED – Corporate PILS (Grossed Up) for 2021-2025 ($'000s)

	2021	2022	2023	2024	2025
Income Taxes	$1,024	$5,211	$8,766	$11,660	$7,689

Table 6 – UPDATED FOR 2019 ACTUALS – Corporate PILS (Grossed Up) for 2021-2025 ($'000s)

	2021	2022	2023	2024	2025
Income Taxes	$2,224	$3,881	$8,604	$11,533	$7,590

The decrease/increase in PILS from year to year is generally due to changes in capital additions and the associated CCA deductions available compared to the accounting depreciation add back (see section 7 above). Net income before tax is also a contributor to the amount of PILS in a given year.

2020 Bridge Year to 2021 Test Year

As submitted in Hydro Ottawa's original Application, 2021 PILS is forecast to decrease mainly due to higher CCA deduction available, driven by the large amount of fixed asset additions placed into service in 2021.

However, with the updates to the 2021 Test Year that are based in large part on 2019 actuals, PILS is forecast to increase mainly due to higher income and accounting depreciation add back, driven by the large amount of fixed asset additions placed into service in 2021.

2021 Test Year to 2022 Test Year

As submitted in the utility's original Application, 2022 PILS is forecast to increase mainly due to a higher accounting depreciation add back and a lower accelerated CCA deduction, due to lower fixed asset additions in 2022 which is creating the higher taxable income.

With the updates to the 2022 Test Year, PILS is forecast to increase mainly due to a higher income and accounting depreciation add back, driven by the large amount of fixed asset additions placed into service in 2022.

2022 Test Year to 2023 Test Year

Similarly, the 2023 PILS, as originally submitted, is forecast to increase due to higher accounting depreciation and a lower accelerated CCA deduction due to lower fixed asset additions in 2023.

With the updates to the 2023 Test Year, PILS is forecast to increase mainly due to a higher income, higher accounting depreciation add back and a lower accelerated CCA deduction due to lower fixed asset additions in 2023.

2023 Test Year to 2024 Test Year

2024 PILS is forecast to increase due to higher accounting depreciation and less accelerated CCA deduction available. This is attributable to the change in the accelerated CCA rules for assets added after 2023 and before 2028. The ability to apply the prescribed CCA rate for an eligible class by 1.5 times the net addition is removed beginning in 2024. The suspension of the half-year rule continues to stay in effect until the end of 2027.

2024 Test Year to 2025 Test Year

2025 PILS is forecast to decrease due to an increase in the accelerated CCA deduction available driven by the large amount of fixed asset additions placed into service in 2025. As in 2024, the CCA deduction is smaller in 2025 than it is in 2021-2023, as a result of the rule change in 2024.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Version 1.10

Utility Name	Hydro Ottawa Limited
Assigned EB Number	EB-2019-0261
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs
Phone Number	613-738-5499,7472
Email Address	RegulatoryAffairs@hydroottawa.com
Date	ORIGINAL
Last COS Re-based Year	2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

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

Instructions

Purpose
The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab T0 and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology
To calculate the PILs for the Test Year:

1) input the balances from the income tax return of the Historical Year in tabs H1 to H13.
2) input the balances for the Bridge Year and the Test Year.
Inputs should include:
- non-deductible expenses (Schedule 1 - B1 and T1)
- loss carryforward (Schedule 4 - B4 and T4)
- capital cost allowance (Schedule 8 - B8 and T8)
- non-deductible reserves (Schedule 13 - B13 and T13)

3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

1. Info
S. Summary
A. Data Input Sheet
B. Tax Rates & Exemptions

Historical Year
H0 - PILs, Tax Provision Historical Year
H1 - Adj. Taxable Income Historical Year
H4 - Schedule 4 Loss Carry Forward Historical Year
H8 - Schedule 8 Historical
H13 - Schedule 13 Tax Reserves Historical

Bridge Year
B0 - PILs,Tax Provision Bridge Year
B1 - Adj. Taxable Income Bridge Year
B4 - Schedule 4 Loss Carry Forward Bridge Year
B8 - Schedule 8 CCA Bridge Year
B13 - Schedule 13 Tax Reserves Bridge Year

Test Year
T0 PILs, Tax Provision Test Year
T1 Taxable Income Test Year
T4 Schedule 4 Loss Carry Forward Test Year
T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference	
Adjustments required to arrive at taxable income	as below	**-37,226,363**
Test Year - Payments in Lieu of Taxes (PILs)	T0	**1,634,688**
Test Year - Grossed-up PILs	T0	**2,224,065**
Effective Federal Tax Rate	T0	**15.0%**
Effective Ontario Tax Rate	T0	**11.5%**

Calculation of Adjustments required to arrive at Taxable Income			
Regulatory Income (before income taxes)	T1	43,715,750	
Taxable Income	T1	6,489,387	
Difference	calculated	-37,226,363	as above

Income Tax/PILs Workform for 2020 Filers

Integrity Checks

The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	Item	Utility Confirmation (Y/N)	Notes
1	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
3	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
4	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed in the application	Y	
5	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7	CCA is maximized even if there are tax loss carry-forwards	Y	
8	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario reports, and actuarial valuations.	Y	
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

			Test Year	Bridge Year	
Rate Base		S	**$ 1,230,736,211**	**$ 1,161,334,543**	
Return on Ratebase					
Deemed ShortTerm Debt %	4.00%	T	$ 49,229,448	*W = S * T*	
Deemed Long Term Debt %	56.00%	U	$ 689,212,278	*X = S * U*	
Deemed Equity %	40.00%	V	$ 492,294,484	*Y = S * V*	
Short Term Interest Rate	2.75%	Z	$ 1,353,810	*AC = W * Z*	
Long Term Interest	3.35%	AA	$ 23,088,611	*AD = X * AA*	
Return on Equity (Regulatory Income)	8.88%	AB	**$ 43,715,750**	*AE = Y * AB*	T1
Return on Rate Base			**$ 68,158,171**	*AF = AC + AD + AE*	

Questions that must be answered

	Historical Year	Bridge Year	Test Year
1. Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? *If Yes, please describe the tax treatment in the manager's summary.*	Yes	Yes	Yes
8. Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax						
General Corporate Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
Federal Tax Abatement	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
Adjusted Federal Rate	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
Federal Income Tax	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
Combined Federal and Ontario	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business						
Federal Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

Notes

1. The Ontario Energy Board's proxy for taxable capital is rate base.
2. Regarding the small business deduction, if applicable,
   a. If taxable capital exceeds $15 million, the small business rate will not be applicable.
   b. If taxable capital is below $10 million, the small business rate would be applicable.
   c. If taxable capital is between $10 million and $15 million, the appropriate small business rate will be calculated.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

					Wires Only	
Regulatory Taxable Income				H1	$ 8,327,201	**A**
Combined Tax Rate and PILs	Ontario Tax Rate (Maximum 11.5%)	11.50%	**B**			
	Federal tax rate (Maximum 15%)	15.00%	**C**			
	Combined tax rate (Maximum 26.5%)				26.50%	**D = B+C**
Total Income Taxes					**$ 2,206,708**	**E = A * D**
Investment Tax Credits					$ 167,000	**F**
Miscellaneous Tax Credits					$ -	**G**
Total Tax Credits					**$ 167,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Historical Year					**$ 2,039,708**	**I = E - H**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal Entity	Non-Distribution Eliminations	Historic Wires Only
Income before PILs/Taxes	(A + 101 + 102)	38,302,970		38,302,970
Additions:				
Interest and penalties on taxes	103	5,000		5,000
Amortization of tangible assets	104	49,071,826		49,071,826
Amortization of intangible assets	106			0
Recapture of capital cost allowance from Schedule 8	107			0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108			0
Loss in equity of subsidiaries and affiliates	110			0
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2	112			0
Taxable capital gains from Schedule 6	113			0
Political contributions	114			0
Deferred and prepaid expenses	116			0
Scientific research expenditures deducted on financial statements	118			0
Capitalized interest	119			0
Non-deductible club dues and fees	120			0
Non-deductible meals and entertainment expense	121	85,000		85,000
Non-deductible automobile expenses	122			0
Non-deductible life insurance premiums	123			0
Non-deductible company pension plans	124			0
Tax reserves deducted in prior year	125	2,367,712		2,367,712
Reserves from financial statements – balance at the end of the year	126	3,183,844		3,183,844
Soft costs on construction and renovation of buildings	127			0
Capital items expensed	206			0
Debt issue expense	208			0
Development expenses claimed in current year	212			0
Financing fees deducted in books	216			0
Gain on settlement of debt	220			0
Non-deductible advertising	226			0
Non-deductible interest	227			0
Non-deductible legal and accounting fees	228			0
Recapture of SR&ED expenditures	231			0
Share issue expense	235			0
Write down of capital property	236			0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237			0
Other additions				
Interest Expensed on Capital Leases	295			0
Realized Income from Deferred Credit Accounts	295			0
Pensions	295	780,000		780,000
Non-deductible penalties	295			0
	295			0
	295			0
ARO Accretion expense				0
Capital Contributions Received (ITA 12(1)(x))				0
Lease Inducements Received (ITA 12(1)(x))				0
Deferred Revenue (ITA 12(1)(a))				0
Prior Year Investment Tax Credits received				0
Current Year Investment Tax Credits received		167,000		167,000
				0
				0
				0
				0
				0
				0
				0
				0
				0
Total Additions		**56,660,382**	**0**	**56,660,382**
Deductions:				
Gain on disposal of assets per financial statements	401			0
Non-taxable dividends under section 83	402			0
Capital cost allowance from Schedule 8	403	78,432,619		78,432,619
Terminal loss from Schedule 8	404			0
Allowable business investment loss	406			0
Deferred and prepaid expenses	409			0
Scientific research expenses claimed in year	411			0
Tax reserves claimed in current year	413	2,367,712		2,367,712
Reserves from financial statements - balance at beginning of year	414	3,183,844		3,183,844
Contributions to deferred income plans	416	680,000		680,000
Book income of joint venture or partnership	305			0
Equity in income from subsidiary or affiliates	306			0
Other deductions				
Interest capitalized for accounting deducted for tax	395			0
Capital Lease Payments	395			0
Non-taxable imputed interest income on deferral and variance accounts	395			0
	395			0
	395			0
ARO Payments - Deductible for Tax when Paid				0
ITA 13(7.4) Election - Capital Contributions Received				0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds				0
Deferred Revenue - ITA 20(1)(m) reserve				0
Principal portion of lease payments				0
Lease Inducement Book Amortization credit to income				0
Financing fees for tax ITA 20(1)(e) and (e.1)				0
Scientific Research & Experimental Development Expenses		1,971,976		1,971,976
				0
				0
				0
				0
				0
				0
				0
Total Deductions		**86,636,151**	**0**	**86,636,151**
Net Income for Tax Purposes		**8,327,201**	**0**	**8,327,201**
Charitable donations from Schedule 2	311			0
Taxable dividends received under section 112 or 113	320			0
Non-capital losses of previous tax years from Schedule 4	331			0
Net capital losses of previous tax years from Schedule 4	332			0
Limited partnership losses of previous tax years from Schedule 4	335			0
TAXABLE INCOME		**8,327,201**	**0**	**8,327,201**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Net Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	$ 152,595,540	$ 811,249	$ 151,784,291
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	$ 86,552,953	$ 1,059,152	$ 85,493,801
2	Distribution System (acq'd pre 1988)	$ 46,603,349		$ 46,603,349
3	Buildings (acq'd pre 1988)	$ 5,323,389		$ 5,323,389
6	Certain Buildings; Fences			$ -
8	General Office Equipment, Furniture, Fixtures	$ 14,027,959		$ 14,027,959
10	Motor Vehicles, Fleet	$ 3,238,737		$ 3,238,737
10.1	Certain Automobiles			$ -
12	Computer Application Software (Non-Systems)	$ 284,047		$ 284,047
13 1	Lease # 1			$ -
13 2	Lease # 2			$ -
13 3	Lease # 3			$ -
13 4	Lease # 4			$ -
14	Limited Period Patents, Franchises, Concessions or Licences			$ -
14.1	Eligible Capital Property (acq'd pre 2017)	$ 10,026,318		$ 10,026,318
14.1	Eligible Capital Property (acq'd post 2016)	$ 14,019,093		$ 14,019,093
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	$ 1,931,969		$ 1,931,969
42	Fibre Optic Cable	$ 5,389,223		$ 5,389,223
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment			$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	$ 404,792	$ 2,674	$ 402,118
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	$ 1,315		$ 1,315
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)			$ -
47	Distribution System (acq'd post Feb 22/05)	$ 576,454,523		$ 576,454,523
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	$ 1,604,403		$ 1,604,403
95	CWIP			$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
	SUB-TOTAL - UCC	918,457,610	1,873,075	916,584,535

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only	
Capital gains reserves ss.40(1)			0	B13
Tax reserves not deducted for accounting purposes				
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712	B13
Reserve for undelivered goods and services not rendered ss. 20(1)(m)			0	B13
Reserve for unpaid amounts ss. 20(1)(n)			0	B13
Debt & share issue expenses ss. 20(1)(e)			0	B13
Other tax reserves			0	B13
			0	
			0	
			0	
			0	
			0	
Total	**2,367,712**	**0**	**2,367,712**	
Financial Statement Reserves (not deductible for Tax Purposes)				
General reserve for inventory obsolescence (non-specific)			0	B13
General reserve for bad debts	3,183,844		3,183,844	B13
Accrued Employee Future Benefits:			0	B13
- Medical and Life Insurance			0	B13
-Short & Long-term Disability			0	B13
-Accmulated Sick Leave			0	B13
- Termination Cost			0	B13
- Other Post-Employment Benefits			0	B13
Provision for Environmental Costs			0	B13
Restructuring Costs			0	B13
Accrued Contingent Litigation Costs			0	B13
Accrued Self-Insurance Costs			0	B13
Other Contingent Liabilities			0	B13
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)			0	B13
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)			0	B13
Other			0	B13
			0	
			0	
Total	**3,183,844**	**0**	**3,183,844**	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

						Reference	Wires Only	
Regulatory Taxable Income						B1	$ 4,346,711	**A**
	Tax Rate		Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate			
Ontario (Max 11.5%)	11.5%		11.5%	$ 499,872	11.5%	**B**		
Federal (Max 15%)	15.0%		15.0%	$ 652,007	15.0%	**C**		
Combined effective tax rate (Max 26.5%)							26.50%	**D = B + C**
Total Income Taxes							**$ 1,151,878**	**E = A * D**
Investment Tax Credits							$ 127,000	**F**
Miscellaneous Tax Credits							$ -	**G**
Total Tax Credits							**$ 127,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Bridge Year							**$ 1,024,878**	**I = E - H**

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Bridge Year

	T2S1 line #	Working Paper Reference	Total for Regulated Utility
Income before PILs/Taxes	**(A + 101 + 102)**		41,715,137
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets	104		51,070,621
Amortization of intangible assets	106		
Recapture of capital cost allowance from Schedule 8	107	B8	0
Income inclusion under subparagraph 13(38)(d)(iii)	108		
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,000
Charitable donations and gifts from Schedule 2	112		
Taxable capital gains	113		
Political contributions	114		
Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements	118		
Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums	123		
Non-deductible company pension plans	124		
Tax reserves deducted in prior year	125	B13	2,367,712
Reserves from financial statements- balance at end of year	126	B13	3,183,844
Soft costs on construction and renovation of buildings	127		
Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt	220		
Non-deductible advertising	226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231		
Share issue expense	235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions			
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,000
Non-deductible penalties	295		
	295		
	295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits received			127,000
Total Additions			**58,619,177**
Deductions:			
Gain on disposal of assets per financial statements	401		
Dividends not taxable under section 83	402		
Capital cost allowance from Schedule 8	403	B8	87,527,860
Terminal loss from Schedule 8	404	B8	0
Allowable business investment loss	406		
Deferred and prepaid expenses	409		
Scientific research expenses claimed in year	411		
Tax reserves claimed in current year	413	B13	2,367,712
Reserves from financial statements - balance at beginning of year	414	B13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		
Equity in income from subsidiary or affiliates	306		
Other deductions			
Interest capitalized for accounting deducted for tax	395		
Capital Lease Payments	395		
Non-taxable imputed interest income on deferral and variance accounts	395		
Scientific Research & Experimental Development Expenses	395		2,228,187
	395		
ARO Payments - Deductible for Tax when Paid			
ITA 13(7.4) Election - Capital Contributions Received			
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			
Deferred Revenue - ITA 20(1)(m) reserve			
Principal portion of lease payments			
Lease Inducement Book Amortization credit to income			
Financing fees for tax ITA 20(1)(e) and (e.1)			
Total Deductions		calculated	**95,987,603**
Net Income for Tax Purposes		calculated	**4,346,711**
Charitable donations	311		
Taxable dividends received under section 112 or 113	320		
Non-capital losses of previous tax years from Schedule 4	331	B4	0
Net capital losses of previous tax years from Schedule 4	332	B4	0
Limited partnership losses of previous tax years from Schedule 4	335		
TAXABLE INCOME		calculated	**4,346,711**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year	B1	0	
Loss Carry Forward Generated in Bridge Year (if any)	B1	0	
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Net Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year			
Loss Carry Forward Generated in Bridge Year (if any)	B1		
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the bridge year (column 9 minus column 17)	Working Paper Reference
1	Buildings, Distribution System (acq'd post 1987)	HB	$ 151,784,291							$ 151,784,291	$ -	$ -	0.50	$ -	$ -	4%			$ 6,071,372		$ 145,712,919	T8
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	HB	$ 85,493,801	$ 1,060,433	$ 1,040,815					$ 86,554,234	$ -	$ 1,040,815	0.50	$ 520,408	$ 9,809	6%			$ 5,223,890		$ 81,330,344	T8
2	Distribution System (acq'd pre 1988)	HB	$ 46,603,349							$ 46,603,349	$ -	$ -		$ -	$ -	6%			$ 2,796,201		$ 43,807,148	T8
3	Buildings (acq'd pre 1988)	HB	$ 5,323,389							$ 5,323,389	$ -	$ -		$ -	$ -	5%			$ 266,169		$ 5,057,220	T8
6	Certain Buildings; Fences	HB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -	T8
8	General Office Equipment, Furniture, Fixtures	HB	$ 14,027,959	$ 1,893,050	$ 1,868,251					$ 15,921,009	$ -	$ 1,868,251	0.50	$ 934,126	$ 12,400	20%			$ 3,368,547		$ 12,552,462	T8
10	Motor Vehicles, Fleet	HB	$ 3,238,737	$ 180,773	$ 180,773					$ 3,419,510	$ -	$ 180,773	0.50	$ 90,387	$ -	30%			$ 1,052,969		$ 2,366,541	T8
10.1	Certain Automobiles	HB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	T8
12	Computer Application Software (Non-Systems)	HB	$ 284,047	$ 10,232,520	$ 10,232,520					$ 10,516,567	$ -	$ 10,232,520	0.00	$ -	$ -	100%			$ 10,516,567		$ -	T8
13 $_1$	Lease # 1	HB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 $_2$	Lease # 2	HB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 $_3$	Lease # 3	HB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 $_4$	Lease # 4	HB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
14	Limited Period Patents, Franchises, Concessions or Licences	HB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	HB	$ 10,026,318							$ 10,026,318	$ -	$ -		$ -	$ -	7%			$ 701,842		$ 9,324,476	T8
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	HB	$ 14,019,093	$ 913,789	$ -					$ 14,932,882	$ -	$ -	0.50	$ -	$ 456,895	5%			$ 723,799		$ 14,209,083	T8
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	HB	$ 1,931,969							$ 1,931,969	$ -	$ -	0.50	$ -	$ -	8%			$ 154,558		$ 1,777,411	T8
42	Fibre Optic Cable	HB	$ 5,389,223	$ 35,093	$ -					$ 5,424,316	$ -	$ -	0.50	$ -	$ 17,547	12%			$ 648,812		$ 4,775,504	T8
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ -							$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -	T8
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ 402,118							$ 402,118	$ -	$ -	1.00	$ -	$ -	50%			$ 201,059		$ 201,059	T8
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	HB	$ 1,315							$ 1,315	$ -	$ -		$ -	$ -	45%			$ 592		$ 723	T8
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	HB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	T8
47	Distribution System (acq'd post Feb 22/05)	HB	$ 576,454,523	$ 66,436,539	$ 61,759,407					$ 642,891,062	$ -	$ 61,759,407	0.50	$ 30,879,704	$ 2,338,566	8%			$ 53,714,576		$ 589,176,486	T8
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	HB	$ 1,604,403	$ 1,459,982	$ 1,459,982					$ 3,064,385	$ -	$ 1,459,982	0.50	$ 729,991	$ -	55%			$ 2,086,907		$ 977,478	T8
95	CWIP	HB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
	TOTALS		$ 916,584,535	$ 82,212,179	$ 76,541,748	$ -	$ -	$ -	$ -	$ 998,796,714	$ -	$ 76,541,748		$ 33,154,614	$ 2,835,215		$ -	$ -	$ 87,527,860	B1	$ 911,268,854	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Bridge Year Adjustments: Additions	Bridge Year Adjustments: Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	H13	0		0				0	T13	0	
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(l)	H13	2,367,712		2,367,712				2,367,712	T13	0	
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	T13	0	
Reserve for unpaid amounts ss. 20(1)(n)	H13	0		0				0	T13	0	
Debt & share issue expenses ss. 20(1)(e)	H13	0		0				0	T13	0	
Other tax reserves	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	B1	**0**	**0**	**2,367,712**	B1	**0**	**0**
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13	0	
General Reserve for Bad Debts	H13	3,183,844		3,183,844				3,183,844	T13	0	
Accrued Employee Future Benefits:	H13	0		0				0	T13	0	
- Medical and Life Insurance	H13	0		0				0	T13	0	
- Short & Long-term Disability	H13	0		0				0	T13	0	
- Accumulated Sick Leave	H13	0		0				0	T13	0	
- Termination Cost	H13	0		0				0	T13	0	
- Other Post-Employment Benefits	H13	0		0				0	T13	0	
Provision for Environmental Costs	H13	0		0				0	T13	0	
Restructuring Costs	H13	0		0				0	T13	0	
Accrued Contingent Litigation Costs	H13	0		0				0	T13	0	
Accrued Self-Insurance Costs	H13	0		0				0	T13	0	
Other Contingent Liabilities	H13	0		0				0	T13	0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	H13	0		0				0	T13	0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	H13	0		0				0	T13	0	
Other	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	B1	**0**	**0**	**3,183,844**	B1	**0**	**0**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Test Year

							Wires Only	
Regulatory Taxable Income						T1	$ 6,489,387	**A**
	Tax Rate	Small Business Rate (If Applicable)		Taxes Payable	Effective Tax Rate			
Ontario (Max 11.5%)	11.5%	11.5%	$	746,280	11.5%	**B**		
Federal (Max 15%)	15.0%	15.0%	$	973,408	15.0%	**C**		
Combined effective tax rate (Max 26.5%)							26.50%	**D = B + C**
Total Income Taxes							**$ 1,719,688**	**E = A * D**
Investment Tax Credits							$ 85,000	**F**
Miscellaneous Tax Credits							$ -	**G**
Total Tax Credits							**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Test Year							**$ 1,634,688**	**I = E - H** S. Su
Corporate PILs/Income Tax Provision Gross Up [1]					73.50%	**J = 1-D**	**$ 589,377**	**K = I/J-I**
Income Tax (grossed-up)							**$ 2,224,065**	**L = K + I** S. Su

Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Taxable Income - Test Year

		Working Paper Reference	Test Year Taxable Income
Net Income Before Taxes		A	43,715,750
	T2 S1 line #		
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets *2-4 ADJUSTED ACCOUNTING DATA P489*	104		52,776,147
Amortization of intangible assets *2-4 ADJUSTED ACCOUNTING DATA P490*	106		
Recapture of capital cost allowance from Schedule 8	107	T8	0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,000
Charitable donations	112		
Taxable Capital Gains	113		
Political Donations	114		
Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements	118		
Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums	123		
Non-deductible company pension plans	124		
Tax reserves beginning of year	125	T13	2,367,712
Reserves from financial statements- balance at end of year	126	T13	3,183,844
Soft costs on construction and renovation of buildings	127		
Book loss on joint ventures or partnerships	205		
Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt	220		
Non-deductible advertising	226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231		
Share issue expense	235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions			
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,000
Non-deductible penalties	295		
	295		
	295		
	295		
	295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits Received			85,000
Total Additions			**60,282,703**
Deductions:			
Gain on disposal of assets per financial statements	401		
Dividends not taxable under section 83	402		
Capital cost allowance from Schedule 8	403	T8	89,459,227
Terminal loss from Schedule 8	404	T8	0
Allowable business investment loss	406		
Deferred and prepaid expenses	409		
Scientific research expenses claimed in year	411		
Tax reserves end of year	413	T13	2,367,712
Reserves from financial statements - balance at beginning of year	414	T13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		
Equity in income from subsidiary or affiliates	306		
Other deductions			
Interest capitalized for accounting deducted for tax	395		
Capital Lease Payments	395		
Non-taxable imputed interest income on deferral and variance accounts	395		
Scientific Research & Experimental Development Expenses	395		1,818,283
	395		
	395		
	395		
	395		
ARO Payments - Deductible for Tax when Paid			
ITA 13(7.4) Election - Capital Contributions Received			
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			
Deferred Revenue - ITA 20(1)(m) reserve			
Principal portion of lease payments			
Lease Inducement Book Amortization credit to income			
Financing fees for tax ITA 20(1)(e) and (e.1)			
Total Deductions		calculated	**97,509,066**
NET INCOME FOR TAX PURPOSES		calculated	**6,489,387**
Charitable donations	311		
Taxable dividends received under section 112 or 113	320		
Non-capital losses of previous tax years from Schedule 4	331	T4	0
Net capital losses of previous tax years from Schedule 4	332	T4	0
Limited partnership losses of previous tax years from Schedule 4	335		
REGULATORY TAXABLE INCOME		calculated	**6,489,387**

T0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years	T1	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	T1	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	T1	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	BB	$ 145,712,919							$ 145,712,919	$ -	$ -	0.50	$ -	$ -	4%			$ 5,828,517		$ 139,884,403
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	BB	$ 81,330,344	1,077,498	1,077,498					$ 82,407,842	$ -	$ 1,077,498	0.50	$ 538,749	$ -	6%			$ 4,976,795		$ 77,431,046
2	Distribution System (acq'd pre 1988)	BB	$ 43,807,148							$ 43,807,148	$ -	$ -		$ -	$ -	6%			$ 2,628,429		$ 41,178,719
3	Buildings (acq'd pre 1988)	BB	$ 5,057,220							$ 5,057,220	$ -	$ -		$ -	$ -	5%			$ 252,861		$ 4,804,359
6	Certain Buildings; Fences	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -
8	General Office Equipment, Furniture, Fixtures	BB	$ 12,552,462	4,179,561	4,179,561					$ 16,732,023	$ -	$ 4,179,561	0.50	$ 2,089,781	$ -	20%			$ 3,764,361		$ 12,967,662
10	Motor Vehicles, Fleet	BB	$ 2,366,541	6,124,426	6,124,426					$ 8,490,967	$ -	$ 6,124,426	0.50	$ 3,062,213	$ -	30%			$ 3,465,954		$ 5,025,013
10.1	Certain Automobiles	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
12	Computer Application Software (Non-Systems)	BB	$ -	4,559,367	4,559,367					$ 4,559,367	$ -	$ 4,559,367	0.00	$ -	$ -	100%			$ 4,559,367		$ -
13 $_1$	Lease # 1	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_2$	Lease # 2	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_3$	Lease # 3	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_4$	Lease # 4	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14	Limited Period Patents, Franchises, Concessions or Licences	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	BB	$ 9,324,476							$ 9,324,476	$ -	$ -		$ -	$ -	7%			$ 652,713		$ 8,671,762
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	BB	$ 14,209,083	51,229,464	51,229,464					$ 65,438,547	$ -	$ 51,229,464	0.50	$ 25,614,732	$ -	5%			$ 4,552,664		$ 60,885,883
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	BB	$ 1,777,411							$ 1,777,411	$ -	$ -	0.50	$ -	$ -	8%			$ 142,193		$ 1,635,219
42	Fibre Optic Cable	BB	$ 4,775,504	17,278	17,278					$ 4,792,782	$ -	$ 17,278	0.50	$ 8,639	$ -	12%			$ 576,170		$ 4,216,611
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ -							$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ 201,059							$ 201,059	$ -	$ -	1.00	$ -	$ -	50%			$ 100,530		$ 100,530
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	BB	$ 723							$ 723	$ -	$ -		$ -	$ -	45%			$ 325		$ 398
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	BB	$ 589,176,486	75,658,015	75,658,015					$ 664,834,501	$ -	$ 75,658,015	0.50	$ 37,829,008	$ -	8%			$ 56,213,081		$ 608,621,420
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	BB	$ 977,478	1,463,823	1,463,823					$ 2,441,301	$ -	$ 1,463,823	0.50	$ 731,912	$ -	55%			$ 1,745,267		$ 696,034
95	CWIP	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
	TOTALS		$ 911,268,854	$ 144,309,432	$ 144,309,432	$ -	$ -	$ -	$ -	$ 1,055,578,286	$ -	$ 144,309,432		$ 69,875,033	$ -		$ -	$ -	$ 89,459,227	T1	$ 966,119,059

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Test Year Adjustments: Additions	Test Year Adjustments: Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	B13	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(l)	B13	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	B13	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	B13	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	B13	0		0				0		0	
Other tax reserves	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	T1	**0**	**0**	**2,367,712**	T1	**0**	**0**
Financial Statement Reserves (not deductible for Tax Purposes)											
General Reserve for Inventory Obsolescence (non-specific)	B13	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	B13	0		0				0		0	
- Medical and Life Insurance	B13	0		0				0		0	
-Short & Long-term Disability	B13	0		0				0		0	
-Accmulated Sick Leave	B13	0		0				0		0	
- Termination Cost	B13	0		0				0		0	
- Other Post-Employment Benefits	B13	0		0				0		0	
Provision for Environmental Costs	B13	0		0				0		0	
Restructuring Costs	B13	0		0				0		0	
Accrued Contingent Litigation Costs	B13	0		0				0		0	
Accrued Self-Insurance Costs	B13	0		0				0		0	
Other Contingent Liabilities	B13	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	B13	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	B13	0		0				0		0	
Other	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	T1	**0**	**0**	**3,183,844**	T1	**0**	**0**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Version 1.10

Utility Name	Hydro Ottawa Limited
Assigned EB Number	EB-2019-0261
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs
Phone Number	613-738-5499,7472
Email Address	RegulatoryAffairs@hydroottawa.com
Date	ORIGINAL
Last COS Re-based Year	2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

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

Instructions

Purpose
The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab T0 and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology
To calculate the PILs for the Test Year:

1) input the balances from the income tax return of the Historical Year in tabs H1 to H13.
2) input the balances for the Bridge Year and the Test Year.
Inputs should include:
- non-deductible expenses (Schedule 1 - B1 and T1)
- loss carryforward (Schedule 4 - B4 and T4)
- capital cost allowance (Schedule 8 - B8 and T8)
- non-deductible reserves (Schedule 13 - B13 and T13)

3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

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Income Tax/PILs Workform for 2020 Filers

1. Info
S. Summary
A. Data Input Sheet
B. Tax Rates & Exemptions

Historical Year
H0 - PILs, Tax Provision Historical Year
H1 - Adj. Taxable Income Historical Year
H4 - Schedule 4 Loss Carry Forward Historical Year
H8 - Schedule 8 Historical
H13 - Schedule 13 Tax Reserves Historical

Bridge Year
B0 - PILs,Tax Provision Bridge Year
B1 - Adj. Taxable Income Bridge Year
B4 - Schedule 4 Loss Carry Forward Bridge Year
B8 - Schedule 8 CCA Bridge Year
B13 - Schedule 13 Tax Reserves Bridge Year

Test Year
T0 PILs, Tax Provision Test Year
T1 Taxable Income Test Year
T4 Schedule 4 Loss Carry Forward Test Year
T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference		
Adjustments required to arrive at taxable income	as below	**-36,965,924**	
Test Year - Payments in Lieu of Taxes (PILs)	T0	**2,852,191**	
Test Year - Grossed-up PILs	T0	**3,880,532**	
Effective Federal Tax Rate	T0	**15.0%**	
Effective Ontario Tax Rate	T0	**11.5%**	
Calculation of Adjustments required to arrive at Taxable Income			
Regulatory Income (before income taxes)	T1	48,049,664	
Taxable Income	T1	11,083,740	
Difference	calculated	-36,965,924	as above

Income Tax/PILs Workform for 2020 Filers

Integrity Checks

The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	Item	Utility Confirmation (Y/N)	Notes
1	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
3	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
4	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed in the application	Y	
5	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7	CCA is maximized even if there are tax loss carry-forwards	Y	
8	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario reports, and actuarial valuations.	Y	
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

			Test Year	Bridge Year	
Rate Base		S	**$ 1,315,708,216**	**$ 1,230,736,211**	
Return on Ratebase					
Deemed ShortTerm Debt %	4.00%	T	$ 52,628,329	*W = S * T*	
Deemed Long Term Debt %	56.00%	U	$ 736,796,601	*X = S * U*	
Deemed Equity %	40.00%	V	$ 526,283,286	*Y = S * V*	
Short Term Interest Rate	2.75%	Z	$ 1,447,279	*AC = W * Z*	
Long Term Interest	3.36%	AA	$ 24,756,366	*AD = X * AA*	
Return on Equity (Regulatory Income)	9.13%	AB	**$ 48,049,664**	*AE = Y * AB*	T1
Return on Rate Base			**$ 74,253,309**	*AF = AC + AD + AE*	

Questions that must be answered

	Historical Year	Bridge Year	Test Year
1. Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? *If Yes, please describe the tax treatment in the manager's summary.*	Yes	Yes	Yes
8. Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax						
General Corporate Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
Federal Tax Abatement	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
Adjusted Federal Rate	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
Federal Income Tax	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
Combined Federal and Ontario	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business						
Federal Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

Notes

1. The Ontario Energy Board's proxy for taxable capital is rate base.
2. Regarding the small business deduction, if applicable,
   a. If taxable capital exceeds $15 million, the small business rate will not be applicable.
   b. If taxable capital is below $10 million, the small business rate would be applicable.
   c. If taxable capital is between $10 million and $15 million, the appropriate small business rate will be calculated.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

					Wires Only	
Regulatory Taxable Income				H1	$ 4,346,711	**A**
Combined Tax Rate and PILs	Ontario Tax Rate (Maximum 11.5%)	11.50%	**B**			
	Federal tax rate (Maximum 15%)	15.00%	**C**			
	Combined tax rate (Maximum 26.5%)				26.50%	**D = B+C**
Total Income Taxes					**$ 1,151,878**	**E = A * D**
	Investment Tax Credits				$ 127,000	**F**
	Miscellaneous Tax Credits				$ -	**G**
Total Tax Credits					**$ 127,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Historical Year					**$ 1,024,878**	**I = E - H**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal Entity	Non-Distribution Eliminations	Historic Wires Only
Income before PILs/Taxes	(A + 101 + 102)	41,715,137		41,715,137
Additions:				
Interest and penalties on taxes	103	5,000		5,000
Amortization of tangible assets	104	51,070,621		51,070,621
Amortization of intangible assets	106	0		0
Recapture of capital cost allowance from Schedule 8	107	0		0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108	0		0
Loss in equity of subsidiaries and affiliates	110	0		0
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2	112	0		0
Taxable capital gains from Schedule 6	113	0		0
Political contributions	114	0		0
Deferred and prepaid expenses	116	0		0
Scientific research expenditures deducted on financial statements	118	0		0
Capitalized interest	119	0		0
Non-deductible club dues and fees	120	0		0
Non-deductible meals and entertainment expense	121	85,000		85,000
Non-deductible automobile expenses	122	0		0
Non-deductible life insurance premiums	123	0		0
Non-deductible company pension plans	124	0		0
Tax reserves deducted in prior year	125	2,367,712		2,367,712
Reserves from financial statements – balance at the end of the year	126	3,183,844		3,183,844
Soft costs on construction and renovation of buildings	127	0		0
Capital items expensed	206	0		0
Debt issue expense	208	0		0
Development expenses claimed in current year	212	0		0
Financing fees deducted in books	216	0		0
Gain on settlement of debt	220	0		0
Non-deductible advertising	226	0		0
Non-deductible interest	227	0		0
Non-deductible legal and accounting fees	228	0		0
Recapture of SR&ED expenditures	231	0		0
Share issue expense	235	0		0
Write down of capital property	236	0		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		0
Other additions				
Interest Expensed on Capital Leases	295	0		0
Realized Income from Deferred Credit Accounts	295	0		0
Pensions	295	780,000		780,000
Non-deductible penalties	295	0		0
	295	0		0
	295	0		0
ARO Accretion expense		0		0
Capital Contributions Received (ITA 12(1)(x))		0		0
Lease Inducements Received (ITA 12(1)(x))		0		0
Deferred Revenue (ITA 12(1)(a))		0		0
Prior Year Investment Tax Credits received		0		0
Current Year Investment Tax Credits received		127,000		127,000
				0
				0
				0
				0
				0
				0
				0
				0
				0
Total Additions		**58,619,177**	**0**	**58,619,177**
Deductions:				
Gain on disposal of assets per financial statements	401	0		0
Non-taxable dividends under section 83	402	0		0
Capital cost allowance from Schedule 8	403	87,527,860		87,527,860
Terminal loss from Schedule 8	404	0		0
Allowable business investment loss	406	0		0
Deferred and prepaid expenses	409	0		0
Scientific research expenses claimed in year	411	0		0
Tax reserves claimed in current year	413	2,367,712		2,367,712
Reserves from financial statements - balance at beginning of year	414	3,183,844		3,183,844
Contributions to deferred income plans	416	680,000		680,000
Book income of joint venture or partnership	305	0		0
Equity in income from subsidiary or affiliates	306	0		0
Other deductions				
Interest capitalized for accounting deducted for tax	395	0		0
Capital Lease Payments	395	0		0
Non-taxable imputed interest income on deferral and variance accounts	395	0		0
Scientific Research & Experimental Development Expenses	395	2,228,187		2,228,187
	395	0		0
ARO Payments - Deductible for Tax when Paid		0		0
ITA 13(7.4) Election - Capital Contributions Received		0		0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds		0		0
Deferred Revenue - ITA 20(1)(m) reserve		0		0
Principal portion of lease payments		0		0
Lease Inducement Book Amortization credit to income		0		0
Financing fees for tax ITA 20(1)(e) and (e.1)		0		0
				0
				0
				0
				0
				0
				0
				0
				0
Total Deductions		**95,987,603**	**0**	**95,987,603**
Net Income for Tax Purposes		**4,346,711**	**0**	**4,346,711**
Charitable donations from Schedule 2	311	0		0
Taxable dividends received under section 112 or 113	320	0		0
Non-capital losses of previous tax years from Schedule 4	331	0		0
Net capital losses of previous tax years from Schedule 4	332	0		0
Limited partnership losses of previous tax years from Schedule 4	335	0		0
TAXABLE INCOME		**4,346,711**	**0**	**4,346,711**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Net Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	$ 145,712,919		$ 145,712,919
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	$ 81,330,344		$ 81,330,344
2	Distribution System (acq'd pre 1988)	$ 43,807,148		$ 43,807,148
3	Buildings (acq'd pre 1988)	$ 5,057,220		$ 5,057,220
6	Certain Buildings; Fences	$ -		$ -
8	General Office Equipment, Furniture, Fixtures	$ 12,552,462		$ 12,552,462
10	Motor Vehicles, Fleet	$ 2,366,541		$ 2,366,541
10.1	Certain Automobiles	$ -		$ -
12	Computer Application Software (Non-Systems)	$ -		$ -
13 1	Lease # 1	$ -		$ -
13 2	Lease # 2	$ -		$ -
13 3	Lease # 3	$ -		$ -
13 4	Lease # 4	$ -		$ -
14	Limited Period Patents, Franchises, Concessions or Licences	$ -		$ -
14.1	Eligible Capital Property (acq'd pre 2017)	$ 9,324,476		$ 9,324,476
14.1	Eligible Capital Property (acq'd post 2016)	$ 14,209,083		$ 14,209,083
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	$ 1,777,411		$ 1,777,411
42	Fibre Optic Cable	$ 4,775,504		$ 4,775,504
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	$ 201,059		$ 201,059
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	$ 723		$ 723
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	$ 589,176,486		$ 589,176,486
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	$ 977,478		$ 977,478
95	CWIP	$ -		$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
	SUB-TOTAL - UCC	911,268,854	0	911,268,854

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only	
Capital gains reserves ss.40(1)			0	B13
Tax reserves not deducted for accounting purposes				
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712	B13
Reserve for undelivered goods and services not rendered ss. 20(1)(m)			0	B13
Reserve for unpaid amounts ss. 20(1)(n)			0	B13
Debt & share issue expenses ss. 20(1)(e)			0	B13
Other tax reserves			0	B13
			0	
			0	
			0	
			0	
			0	
Total	**2,367,712**	**0**	**2,367,712**	
Financial Statement Reserves (not deductible for Tax Purposes)				
General reserve for inventory obsolescence (non-specific)			0	B13
General reserve for bad debts	3,183,844		3,183,844	B13
Accrued Employee Future Benefits:			0	B13
- Medical and Life Insurance			0	B13
-Short & Long-term Disability			0	B13
-Accmulated Sick Leave			0	B13
- Termination Cost			0	B13
- Other Post-Employment Benefits			0	B13
Provision for Environmental Costs			0	B13
Restructuring Costs			0	B13
Accrued Contingent Litigation Costs			0	B13
Accrued Self-Insurance Costs			0	B13
Other Contingent Liabilities			0	B13
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)			0	B13
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)			0	B13
Other			0	B13
			0	
			0	
Total	**3,183,844**	**0**	**3,183,844**	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

						Wires Only	
Regulatory Taxable Income					Reference B1	$ 6,489,387	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate			
Ontario (Max 11.5%)	11.5%	11.5%	$ 746,280	11.5%	**B**		
Federal (Max 15%)	15.0%	15.0%	$ 973,408	15.0%	**C**		
Combined effective tax rate (Max 26.5%)						26.50%	**D = B + C**
Total Income Taxes						**$ 1,719,688**	**E = A * D**
Investment Tax Credits						$ 85,000	**F**
Miscellaneous Tax Credits						$ -	**G**
Total Tax Credits						**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Bridge Year						**$ 1,634,688**	**I = E - H**

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Bridge Year

	T2S1 line #	Working Paper Reference	Total for Regulated Utility
Income before PILs/Taxes	(A + 101 + 102)		43,715,750
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets	104		52,776,147
Amortization of intangible assets	106		0
Recapture of capital cost allowance from Schedule 8	107	B8	0
Income inclusion under subparagraph 13(38)(d)(iii)	108		
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,000
Charitable donations and gifts from Schedule 2	112		0
Taxable capital gains	113		0
Political contributions	114		0
Deferred and prepaid expenses	116		0
Scientific research expenditures deducted on financial statements	118		0
Capitalized interest	119		0
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		0
Non-deductible life insurance premiums	123		0
Non-deductible company pension plans	124		0
Tax reserves deducted in prior year	125	B13	2,367,712
Reserves from financial statements- balance at end of year	126	B13	3,183,844
Soft costs on construction and renovation of buildings	127		0
Capital items expensed	206		0
Debt issue expense	208		0
Development expenses claimed in current year	212		0
Financing fees deducted in books	216		0
Gain on settlement of debt	220		0
Non-deductible advertising	226		0
Non-deductible interest	227		0
Non-deductible legal and accounting fees	228		0
Recapture of SR&ED expenditures	231		0
Share issue expense	235		0
Write down of capital property	236		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		0
Other Additions			
Interest Expensed on Capital Leases	295		0
Realized Income from Deferred Credit Accounts	295		0
Pensions	295		780,000
Non-deductible penalties	295		0
	295		
	295		
ARO Accretion expense			0
Capital Contributions Received (ITA 12(1)(x))			0
Lease Inducements Received (ITA 12(1)(x))			0
Deferred Revenue (ITA 12(1)(a))			0
Prior Year Investment Tax Credits received			0
Current Year Investment Tax Credits received			85,000
Total Additions			**60,282,703**
Deductions:			
Gain on disposal of assets per financial statements	401		0
Dividends not taxable under section 83	402		0
Capital cost allowance from Schedule 8	403	B8	89,459,227
Terminal loss from Schedule 8	404	B8	0
Allowable business investment loss	406		0
Deferred and prepaid expenses	409		0
Scientific research expenses claimed in year	411		0
Tax reserves claimed in current year	413	B13	2,367,712
Reserves from financial statements - balance at beginning of year	414	B13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		0
Equity in income from subsidiary or affiliates	306		0
Other deductions			0
Interest capitalized for accounting deducted for tax	395		0
Capital Lease Payments	395		0
Non-taxable imputed interest income on deferral and variance accounts	395		0
Deferral, Research & Experimental Development Expenses	395		1,818,283
	395		0
ARO Payments - Deductible for Tax when Paid			0
ITA 13(7.4) Election - Capital Contributions Received			0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			0
Deferred Revenue - ITA 20(1)(m) reserve			0
Principal portion of lease payments			0
Lease Inducement Book Amortization credit to income			0
Financing fees for tax ITA 20(1)(e) and (e.1)			0
Total Deductions		calculated	**97,509,066**
Net Income for Tax Purposes		calculated	**6,489,387**
Charitable donations	311		0
Taxable dividends received under section 112 or 113	320		0
Non-capital losses of previous tax years from Schedule 4	331	B4	0
Net capital losses of previous tax years from Schedule 4	332	B4	0
Limited partnership losses of previous tax years from Schedule 4	335		0
TAXABLE INCOME		calculated	**6,489,387**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year	B1	0	
Loss Carry Forward Generated in Bridge Year (if any)	B1	0	
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Net Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year			
Loss Carry Forward Generated in Bridge Year (if any)	B1		
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the bridge year (column 9 minus column 17)	Working Paper Reference
1	Buildings, Distribution System (acq'd post 1987)	H8	$ 145,712,919	$ -	$ -	$ -	$ -	$ -	$ -	$ 145,712,919	$ -	$ -	0.50	$ -	$ -	4%			$ 5,828,517		$ 139,884,403	T8
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	H8	$ 81,330,344	$ 1,077,498	$ 1,077,498	$ -	$ -	$ -	$ -	$ 82,407,842	$ -	$ 1,077,498	0.50	$ 538,749	$ -	6%			$ 4,976,795		$ 77,431,046	T8
2	Distribution System (acq'd pre 1988)	H8	$ 43,807,148			$ -	$ -	$ -	$ -	$ 43,807,148	$ -	$ -		$ -	$ -	6%			$ 2,628,429		$ 41,178,719	T8
3	Buildings (acq'd pre 1988)	H8	$ 5,057,220			$ -	$ -	$ -	$ -	$ 5,057,220	$ -	$ -		$ -	$ -	5%			$ 252,861		$ 4,804,359	T8
6	Certain Buildings; Fences	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -	T8
8	General Office Equipment, Furniture, Fixtures	H8	$ 12,552,462	$ 4,179,561	$ 4,179,561	$ -	$ -	$ -	$ -	$ 16,732,023	$ -	$ 4,179,561	0.50	$ 2,089,781	$ -	20%			$ 3,764,361		$ 12,967,662	T8
10	Motor Vehicles, Fleet	H8	$ 2,366,541	$ 6,124,426	$ 6,124,426	$ -	$ -	$ -	$ -	$ 8,490,967	$ -	$ 6,124,426	0.50	$ 3,062,213	$ -	30%			$ 3,465,954		$ 5,025,013	T8
10.1	Certain Automobiles	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	T8
12	Computer Application Software (Non-Systems)	H8	$ -	$ 4,559,367	$ 4,559,367	$ -	$ -	$ -	$ -	$ 4,559,367	$ -	$ 4,559,367	0.00	$ -	$ -	100%			$ 4,559,367		$ -	T8
13 1	Lease # 1	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 2	Lease # 2	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 3	Lease # 3	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 4	Lease # 4	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
14	Limited Period Patents, Franchises, Concessions or Licences	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	H8	$ 9,324,476			$ -	$ -	$ -	$ -	$ 9,324,476	$ -	$ -		$ -	$ -	7%			$ 652,713		$ 8,671,762	T8
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	H8	$ 14,209,083	$ 51,229,464	$ 51,229,464	$ -	$ -	$ -	$ -	$ 65,438,547	$ -	$ 51,229,464	0.50	$ 25,614,732	$ -	5%			$ 4,552,664		$ 60,885,883	T8
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	H8	$ 1,777,411	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,777,411	$ -	$ -	0.50	$ -	$ -	8%			$ 142,193		$ 1,635,219	T8
42	Fibre Optic Cable	H8	$ 4,775,504	$ 17,278	$ 17,278	$ -	$ -	$ -	$ -	$ 4,792,782	$ -	$ 17,278	0.50	$ 8,639	$ -	12%			$ 576,170		$ 4,216,611	T8
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -	T8
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	H8	$ 201,059	$ -	$ -	$ -	$ -	$ -	$ -	$ 201,059	$ -	$ -	1.00	$ -	$ -	50%			$ 100,530		$ 100,530	T8
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	H8	$ 723			$ -	$ -	$ -	$ -	$ 723	$ -	$ -		$ -	$ -	45%			$ 325		$ 398	T8
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	T8
47	Distribution System (acq'd post Feb 22/05)	H8	$ 589,176,486	$ 75,658,015	$ 75,658,015	$ -	$ -	$ -	$ -	$ 664,834,501	$ -	$ 75,658,015	0.50	$ 37,829,008	$ -	8%			$ 56,213,081		$ 608,621,420	T8
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	H8	$ 977,478	$ 1,463,823	$ 1,463,823	$ -	$ -	$ -	$ -	$ 2,441,301	$ -	$ 1,463,823	0.50	$ 731,912	$ -	55%			$ 1,745,267		$ 696,034	T8
95	CWIP	H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -	T8
		H8	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
		H8	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		H8	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		H8	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		H8	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		H8	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		H8	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
		H8	$ -							$ -	$ -	$ -		$ -	$ -						$ -	T8
	TOTALS		$ 911,268,854	$ 144,309,432	$ 144,309,432	$ -	$ -	$ -	$ -	$ 1,055,578,286	$ -	$ 144,309,432		$ 69,875,033	$ -		$ -	$ -	$ 89,459,227	B1	$ 966,119,059	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Bridge Year Adjustments: Additions	Bridge Year Adjustments: Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	H13	0		0				0	T13	0	
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(l)	H13	2,367,712		2,367,712				2,367,712	T13	0	
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	T13	0	
Reserve for unpaid amounts ss. 20(1)(n)	H13	0		0				0	T13	0	
Debt & share issue expenses ss. 20(1)(e)	H13	0		0				0	T13	0	
Other tax reserves	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	B1	**0**	**0**	**2,367,712**	B1	**0**	**0**
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13	0	
General Reserve for Bad Debts	H13	3,183,844		3,183,844				3,183,844	T13	0	
Accrued Employee Future Benefits:	H13	0		0				0	T13	0	
- Medical and Life Insurance	H13	0		0				0	T13	0	
- Short & Long-term Disability	H13	0		0				0	T13	0	
- Accumulated Sick Leave	H13	0		0				0	T13	0	
- Termination Cost	H13	0		0				0	T13	0	
- Other Post-Employment Benefits	H13	0		0				0	T13	0	
Provision for Environmental Costs	H13	0		0				0	T13	0	
Restructuring Costs	H13	0		0				0	T13	0	
Accrued Contingent Litigation Costs	H13	0		0				0	T13	0	
Accrued Self-Insurance Costs	H13	0		0				0	T13	0	
Other Contingent Liabilities	H13	0		0				0	T13	0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	H13	0		0				0	T13	0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	H13	0		0				0	T13	0	
Other	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	B1	**0**	**0**	**3,183,844**	B1	**0**	**0**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Test Year

							Wires Only	
Regulatory Taxable Income						T1	$ 11,083,740	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate				
Ontario (Max 11.5%)	11.5%	11.5%	$ 1,274,630	11.5%	**B**			
Federal (Max 15%)	15.0%	15.0%	$ 1,662,561	15.0%	**C**			
Combined effective tax rate (Max 26.5%)							26.50%	**D = B + C**
Total Income Taxes							**$ 2,937,191**	**E = A * D**
Investment Tax Credits							$ 85,000	**F**
Miscellaneous Tax Credits							$ -	**G**
Total Tax Credits							**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Test Year							**$ 2,852,191**	**I = E - H** S. Su
Corporate PILs/Income Tax Provision Gross Up [1]						73.50% **J = 1-D**	**$ 1,028,341**	**K = I/J-I**
Income Tax (grossed-up)							**$ 3,880,532**	**L = K + I** S. Su

Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.

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Income Tax/PILs Workform for 2020 Filers

Taxable Income - Test Year

		Working Paper Reference	Test Year Taxable Income
Net Income Before Taxes		A	48,049,664
	T2 S1 line #		
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets *2-4 ADJUSTED ACCOUNTING DATA P489*	104		57,126,035
Amortization of intangible assets *2-4 ADJUSTED ACCOUNTING DATA P490*	106		
Recapture of capital cost allowance from Schedule 8	107	T8	0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,000
Charitable donations	112		
Taxable Capital Gains	113		
Political Donations	114		
Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements	118		
Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums	123		
Non-deductible company pension plans	124		
Tax reserves beginning of year	125	T13	2,367,712
Reserves from financial statements- balance at end of year	126	T13	3,183,844
Soft costs on construction and renovation of buildings	127		
Book loss on joint ventures or partnerships	205		
Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt	220		
Non-deductible advertising	226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231		
Share issue expense	235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions			
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,000
Non-deductible penalties	295		
	295		
	295		
	295		
	295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits received			85,000
Total Additions			**64,632,591**
Deductions:			
Gain on disposal of assets per financial statements	401		
Dividends not taxable under section 83	402		
Capital cost allowance from Schedule 8	403	T8	93,630,000
Terminal loss from Schedule 8	404	T8	0
Allowable business investment loss	406		
Deferred and prepaid expenses	409		
Scientific research expenses claimed in year	411		
Tax reserves end of year	413	T13	2,367,712
Reserves from financial statements - balance at beginning of year	414	T13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		
Equity in income from subsidiary or affiliates	306		
Other deductions			
Interest capitalized for accounting deducted for tax	395		
Capital Lease Payments	395		
Non-taxable imputed interest income on deferral and variance accounts	395		
Scientific Research & Experimental Development Expenses	395		1,736,959
	395		
	395		
	395		
	395		
ARO Payments - Deductible for Tax when Paid			
ITA 13(7.4) Election - Capital Contributions Received			
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			
Deferred Revenue - ITA 20(1)(m) reserve			
Principal portion of lease payments			
Lease Inducement Book Amortization credit to income			
Financing fees for tax ITA 20(1)(e) and (e.1)			
Total Deductions		calculated	**101,598,515**
NET INCOME FOR TAX PURPOSES		calculated	**11,083,740**
Charitable donations	311		
Taxable dividends received under section 112 or 113	320		
Non-capital losses of previous tax years from Schedule 4	331	T4	0
Net capital losses of previous tax years from Schedule 4	332	T4	0
Limited partnership losses of previous tax years from Schedule 4	335		
REGULATORY TAXABLE INCOME		calculated	**11,083,740** T0

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Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years	T1	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	T1	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	T1	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

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Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	BB	$ 139,884,403							$ 139,884,403	$ -	$ -	0.50	$ -	$ -	4%			$ 5,595,376		$ 134,289,026
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	BB	$ 77,431,046	8,718,645	8,718,645					$ 86,149,691	$ -	$ 8,718,645	0.50	$ 4,359,323	$ -	6%			$ 5,430,541		$ 80,719,151
2	Distribution System (acq'd pre 1988)	BB	$ 41,178,719							$ 41,178,719	$ -	$ -		$ -	$ -	6%			$ 2,470,723		$ 38,707,996
3	Buildings (acq'd pre 1988)	BB	$ 4,804,359							$ 4,804,359	$ -	$ -		$ -	$ -	5%			$ 240,218		$ 4,564,141
6	Certain Buildings; Fences	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -
8	General Office Equipment, Furniture, Fixtures	BB	$ 12,967,662	2,882,520	2,882,520					$ 15,850,182	$ -	$ 2,882,520	0.50	$ 1,441,260	$ -	20%			$ 3,458,288		$ 12,391,894
10	Motor Vehicles, Fleet	BB	$ 5,025,013	5,223,986	5,223,986					$ 10,248,999	$ -	$ 5,223,986	0.50	$ 2,611,993	$ -	30%			$ 3,858,298		$ 6,390,702
10.1	Certain Automobiles	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
12	Computer Application Software (Non-Systems)	BB	$ -	4,107,240	4,107,240					$ 4,107,240	$ -	$ 4,107,240	0.00	$ -	$ -	100%			$ 4,107,240		$ -
13 1	Lease # 1	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 2	Lease # 2	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 3	Lease # 3	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 4	Lease # 4	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14	Limited Period Patents, Franchises, Concessions or Licences	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	BB	$ 8,671,762							$ 8,671,762	$ -	$ -		$ -	$ -	7%			$ 607,023		$ 8,064,739
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	BB	$ 60,885,883	215,847	215,847					$ 61,101,730	$ -	$ 215,847	0.50	$ 107,924	$ -	5%			$ 3,060,483		$ 58,041,247
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	BB	$ 1,635,219							$ 1,635,219	$ -	$ -	0.50	$ -	$ -	8%			$ 130,817		$ 1,504,401
42	Fibre Optic Cable	BB	$ 4,216,611	17,278	17,278					$ 4,233,889	$ -	$ 17,278	0.50	$ 8,639	$ -	12%			$ 509,103		$ 3,724,786
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ -							$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ 100,530	1,242,123	1,242,123					$ 1,342,653	$ -	$ 1,242,123	1.00	$ 1,242,123	$ -	50%			$ 1,292,388		$ 50,265
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	BB	$ 398							$ 398	$ -	$ -		$ -	$ -	45%			$ 179		$ 219
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	BB	$ 608,621,420	97,665,132	97,665,132					$ 706,286,552	$ -	$ 97,665,132	0.50	$ 48,832,566	$ -	8%			$ 60,409,529		$ 645,877,023
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	BB	$ 696,034	2,517,544	2,517,544					$ 3,213,578	$ -	$ 2,517,544	0.50	$ 1,258,772	$ -	55%			$ 2,459,793		$ 753,786
95	CWIP	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
	TOTALS		$ 966,119,059	$ 122,590,315	$ 122,590,315	$ -	$ -	$ -	$ -	$ 1,088,709,374	$ -	$ 122,590,315		$ 59,862,599	$ -		$ -	$ -	$ 93,630,000	T1	$ 995,079,374

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Test Year Adjustments: Additions	Test Year Adjustments: Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	B13	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(l)	B13	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	B13	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	B13	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	B13	0		0				0		0	
Other tax reserves	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	T1	**0**	**0**	**2,367,712**	T1	**0**	**0**
Financial Statement Reserves (not deductible for Tax Purposes)											
General Reserve for Inventory Obsolescence (non-specific)	B13	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	B13	0		0				0		0	
- Medical and Life Insurance	B13	0		0				0		0	
-Short & Long-term Disability	B13	0		0				0		0	
-Accmulated Sick Leave	B13	0		0				0		0	
- Termination Cost	B13	0		0				0		0	
- Other Post-Employment Benefits	B13	0		0				0		0	
Provision for Environmental Costs	B13	0		0				0		0	
Restructuring Costs	B13	0		0				0		0	
Accrued Contingent Litigation Costs	B13	0		0				0		0	
Accrued Self-Insurance Costs	B13	0		0				0		0	
Other Contingent Liabilities	B13	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	B13	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	B13	0		0				0		0	
Other	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	T1	**0**	**0**	**3,183,844**	T1	**0**	**0**

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Income Tax/PILs Workform for 2020 Filers

Version 1.10

Utility Name	Hydro Ottawa Limited
Assigned EB Number	EB-2019-0261
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs
Phone Number	613-738-5499,7472
Email Address	RegulatoryAffairs@hydroottawa.com
Date	ORIGINAL
Last COS Re-based Year	2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

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

Instructions

Purpose
The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab T0 and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology
To calculate the PILs for the Test Year:

1) input the balances from the income tax return of the Historical Year in tabs H1 to H13.
2) input the balances for the Bridge Year and the Test Year.
Inputs should include:
- non-deductible expenses (Schedule 1 - B1 and T1)
- loss carryforward (Schedule 4 - B4 and T4)
- capital cost allowance (Schedule 8 - B8 and T8)
- non-deductible reserves (Schedule 13 - B13 and T13)

3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

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Income Tax/PILs Workform for 2020 Filers

1. Info
S. Summary
A. Data Input Sheet
B. Tax Rates & Exemptions

Historical Year
H0 - PILs, Tax Provision Historical Year
H1 - Adj. Taxable Income Historical Year
H4 - Schedule 4 Loss Carry Forward Historical Year
H8 - Schedule 8 Historical
H13 - Schedule 13 Tax Reserves Historical

Bridge Year
B0 - PILs,Tax Provision Bridge Year
B1 - Adj. Taxable Income Bridge Year
B4 - Schedule 4 Loss Carry Forward Bridge Year
B8 - Schedule 8 CCA Bridge Year
B13 - Schedule 13 Tax Reserves Bridge Year

Test Year
T0 PILs, Tax Provision Test Year
T1 Taxable Income Test Year
T4 Schedule 4 Loss Carry Forward Test Year
T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

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Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference		
Adjustments required to arrive at taxable income	as below	**-26,595,403**	
Test Year - Payments in Lieu of Taxes (PILs)	T0	**6,323,862**	
Test Year - Grossed-up PILs	T0	**8,603,893**	
Effective Federal Tax Rate	T0	**15.0%**	
Effective Ontario Tax Rate	T0	**11.5%**	
Calculation of Adjustments required to arrive at Taxable Income			
Regulatory Income (before income taxes)	T1	50,779,786	
Taxable Income	T1	24,184,384	
Difference	calculated	-26,595,403	as above

Income Tax/PILs Workform for 2020 Filers

Integrity Checks

The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	Item	Utility Confirmation (Y/N)	Notes
1	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
3	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
4	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed in the application	Y	
5	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7	CCA is maximized even if there are tax loss carry-forwards	Y	
8	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario reports, and actuarial valuations.	Y	
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

			Test Year	Bridge Year	
Rate Base		S	**$ 1,363,581,802**	**$ 1,315,708,216**	
Return on Ratebase					
Deemed ShortTerm Debt %	4.00%	T	$ 54,543,272	*W = S * T*	
Deemed Long Term Debt %	56.00%	U	$ 763,605,809	*X = S * U*	
Deemed Equity %	40.00%	V	$ 545,432,721	*Y = S * V*	
Short Term Interest Rate	2.75%	Z	$ 1,499,940	*AC = W * Z*	
Long Term Interest	3.40%	AA	$ 25,962,598	*AD = X * AA*	
Return on Equity (Regulatory Income)	9.31%	AB	**$ 50,779,786**	*AE = Y * AB*	T1
Return on Rate Base			**$ 78,242,324**	*AF = AC + AD + AE*	

Questions that must be answered

	Historical Year	Bridge Year	Test Year
1. Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? *If Yes, please describe the tax treatment in the manager's summary.*	Yes	Yes	Yes
8. Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax						
General Corporate Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
Federal Tax Abatement	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
Adjusted Federal Rate	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
Federal Income Tax	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
Combined Federal and Ontario	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business						
Federal Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

Notes

1. The Ontario Energy Board's proxy for taxable capital is rate base.
2. Regarding the small business deduction, if applicable,
   a. If taxable capital exceeds $15 million, the small business rate will not be applicable.
   b. If taxable capital is below $10 million, the small business rate would be applicable.
   c. If taxable capital is between $10 million and $15 million, the appropriate small business rate will be calculated.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

					Wires Only	
Regulatory Taxable Income				H1	$ 6,489,387	**A**
Combined Tax Rate and PILs	Ontario Tax Rate (Maximum 11.5%)	11.50%	**B**			
	Federal tax rate (Maximum 15%)	15.00%	**C**			
	Combined tax rate (Maximum 26.5%)				26.50%	**D = B+C**
Total Income Taxes					**$ 1,719,688**	**E = A * D**
Investment Tax Credits					$ 85,000	**F**
Miscellaneous Tax Credits					$ -	**G**
Total Tax Credits					**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Historical Year					**$ 1,634,688**	**I = E - H**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal Entity	Non-Distribution Eliminations	Historic Wires Only
Income before PILs/Taxes	(A + 101 + 102)	43,715,750		43,715,750
Additions:				
Interest and penalties on taxes	103	5,000		5,000
Amortization of tangible assets	104	52,776,147		52,776,147
Amortization of intangible assets	106	0		0
Recapture of capital cost allowance from Schedule 8	107	0		0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108	0		0
Loss in equity of subsidiaries and affiliates	110	0		0
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2	112	0		0
Taxable capital gains from Schedule 6	113	0		0
Political contributions	114	0		0
Deferred and prepaid expenses	116	0		0
Scientific research expenditures deducted on financial statements	118	0		0
Capitalized interest	119	0		0
Non-deductible club dues and fees	120	0		0
Non-deductible meals and entertainment expense	121	85,000		85,000
Non-deductible automobile expenses	122	0		0
Non-deductible life insurance premiums	123	0		0
Non-deductible company pension plans	124	0		0
Tax reserves deducted in prior year	125	2,367,712		2,367,712
Reserves from financial statements – balance at the end of the year	126	3,183,844		3,183,844
Soft costs on construction and renovation of buildings	127	0		0
Capital items expensed	206	0		0
Debt issue expense	208	0		0
Development expenses claimed in current year	212	0		0
Financing fees deducted in books	216	0		0
Gain on settlement of debt	220	0		0
Non-deductible advertising	226	0		0
Non-deductible interest	227	0		0
Non-deductible legal and accounting fees	228	0		0
Recapture of SR&ED expenditures	231	0		0
Share issue expense	235	0		0
Write down of capital property	236	0		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		0
Other additions				
Interest Expensed on Capital Leases	295	0		0
Realized Income from Deferred Credit Accounts	295	0		0
Pensions	295	780,000		780,000
Non-deductible penalties	295	0		0
	295	0		0
	295	0		0
ARO Accretion expense		0		0
Capital Contributions Received (ITA 12(1)(x))		0		0
Lease Inducements Received (ITA 12(1)(x))		0		0
Deferred Revenue (ITA 12(1)(a))		0		0
Prior Year Investment Tax Credits received		0		0
Current Year Investment Tax Credits received		85,000		85,000
				0
				0
				0
				0
				0
				0
				0
				0
				0
Total Additions		**60,282,703**	**0**	**60,282,703**
Deductions:				
Gain on disposal of assets per financial statements	401	0		0
Non-taxable dividends under section 83	402	0		0
Capital cost allowance from Schedule 8	403	89,459,227		89,459,227
Terminal loss from Schedule 8	404	0		0
Allowable business investment loss	406	0		0
Deferred and prepaid expenses	409	0		0
Scientific research expenses claimed in year	411	0		0
Tax reserves claimed in current year	413	2,367,712		2,367,712
Reserves from financial statements - balance at beginning of year	414	3,183,844		3,183,844
Contributions to deferred income plans	416	680,000		680,000
Book income of joint venture or partnership	305	0		0
Equity in income from subsidiary or affiliates	306	0		0
Other deductions				
Interest capitalized for accounting deducted for tax	395	0		0
Capital Lease Payments	395	0		0
Non-taxable imputed interest income on deferral and variance accounts	395	0		0
Scientific Research & Experimental Development Expenses	395	1,818,283		1,818,283
	395	0		0
ARO Payments - Deductible for Tax when Paid		0		0
ITA 13(7.4) Election - Capital Contributions Received		0		0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds		0		0
Deferred Revenue - ITA 20(1)(m) reserve		0		0
Principal portion of lease payments		0		0
Lease Inducement Book Amortization credit to income		0		0
Financing fees for tax ITA 20(1)(e) and (e.1)		0		0
				0
				0
				0
				0
				0
				0
				0
				0
Total Deductions		**97,509,066**	**0**	**97,509,066**
Net Income for Tax Purposes		**6,489,387**	**0**	**6,489,387**
Charitable donations from Schedule 2	311	0		0
Taxable dividends received under section 112 or 113	320	0		0
Non-capital losses of previous tax years from Schedule 4	331	0		0
Net capital losses of previous tax years from Schedule 4	332	0		0
Limited partnership losses of previous tax years from Schedule 4	335	0		0
TAXABLE INCOME		**6,489,387**	**0**	**6,489,387**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Net Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	$ 139,884,403		$ 139,884,403
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	$ 77,431,046		$ 77,431,046
2	Distribution System (acq'd pre 1988)	$ 41,178,719		$ 41,178,719
3	Buildings (acq'd pre 1988)	$ 4,804,359		$ 4,804,359
6	Certain Buildings; Fences	$ -		$ -
8	General Office Equipment, Furniture, Fixtures	$ 12,967,662		$ 12,967,662
10	Motor Vehicles, Fleet	$ 5,025,013		$ 5,025,013
10.1	Certain Automobiles	$ -		$ -
12	Computer Application Software (Non-Systems)	$ -		$ -
13 1	Lease # 1	$ -		$ -
13 2	Lease # 2	$ -		$ -
13 3	Lease # 3	$ -		$ -
13 4	Lease # 4	$ -		$ -
14	Limited Period Patents, Franchises, Concessions or Licences	$ -		$ -
14.1	Eligible Capital Property (acq'd pre 2017)	$ 8,671,762		$ 8,671,762
14.1	Eligible Capital Property (acq'd post 2016)	$ 60,885,883		$ 60,885,883
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	$ 1,635,219		$ 1,635,219
42	Fibre Optic Cable	$ 4,216,611		$ 4,216,611
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	$ 100,530		$ 100,530
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	$ 398		$ 398
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	$ 608,621,420		$ 608,621,420
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	$ 696,034		$ 696,034
95	CWIP	$ -		$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
	SUB-TOTAL - UCC	**966,119,059**	**0**	**966,119,059**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only	
Capital gains reserves ss.40(1)			0	B13
Tax reserves not deducted for accounting purposes				
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712	B13
Reserve for undelivered goods and services not rendered ss. 20(1)(m)			0	B13
Reserve for unpaid amounts ss. 20(1)(n)			0	B13
Debt & share issue expenses ss. 20(1)(e)			0	B13
Other tax reserves			0	B13
			0	
			0	
			0	
			0	
			0	
Total	**2,367,712**	**0**	**2,367,712**	
Financial Statement Reserves (not deductible for Tax Purposes)				
General reserve for inventory obsolescence (non-specific)			0	B13
General reserve for bad debts	3,183,844		3,183,844	B13
Accrued Employee Future Benefits:			0	B13
- Medical and Life Insurance			0	B13
-Short & Long-term Disability			0	B13
-Accmulated Sick Leave			0	B13
- Termination Cost			0	B13
- Other Post-Employment Benefits			0	B13
Provision for Environmental Costs			0	B13
Restructuring Costs			0	B13
Accrued Contingent Litigation Costs			0	B13
Accrued Self-Insurance Costs			0	B13
Other Contingent Liabilities			0	B13
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)			0	B13
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)			0	B13
Other			0	B13
			0	
			0	
Total	**3,183,844**	**0**	**3,183,844**	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

						Reference	Wires Only	
Regulatory Taxable Income						B1	$ 11,083,740	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate				
Ontario (Max 11.5%)	11.5%	11.5%	########	11.5%	**B**			
Federal (Max 15%)	15.0%	15.0%	########	15.0%	**C**			
Combined effective tax rate (Max 26.5%)							26.50%	**D = B + C**
Total Income Taxes							**$ 2,937,191**	**E = A * D**
Investment Tax Credits							$ 85,000	**F**
Miscellaneous Tax Credits							$ -	**G**
Total Tax Credits							**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Bridge Year							**$ 2,852,191**	**I = E - H**

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Bridge Year

	T2S1 line #	Working Paper Reference	Total for Regulated Utility
Income before PILs/Taxes	**(A + 101 + 102)**		48,049,664
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets	104		57,126,035
Amortization of intangible assets	106		0
Recapture of capital cost allowance from Schedule 8	107	B8	0
Income inclusion under subparagraph 13(38)(d)(iii)	108		0
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		0
Loss on disposal of assets	111		1,000,000
Charitable donations and gifts from Schedule 2	112		0
Taxable capital gains	113		0
Political contributions	114		0
Deferred and prepaid expenses	116		0
Scientific research expenditures deducted on financial statements	118		0
Capitalized interest	119		0
Non-deductible club dues and fees	120		0
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		0
Non-deductible life insurance premiums	123		0
Non-deductible company pension plans	124		0
Tax reserves deducted in prior year	125	B13	2,367,712
Reserves from financial statements- balance at end of year	126	B13	3,183,844
Soft costs on construction and renovation of buildings	127		0
Capital items expensed	206		0
Debt issue expense	208		0
Development expenses claimed in current year	212		0
Financing fees deducted in books	216		0
Gain on settlement of debt	220		0
Non-deductible advertising	226		0
Non-deductible interest	227		0
Non-deductible legal and accounting fees	228		0
Recapture of SR&ED expenditures	231		0
Share issue expense	235		0
Write down of capital property	236		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		0
Other Additions			
Interest Expensed on Capital Leases	295		0
Realized Income from Deferred Credit Accounts	295		0
Pensions	295		780,000
Non-deductible penalties	295		0
	295		0
	295		0
ARO Accretion expense			0
Capital Contributions Received (ITA 12(1)(x))			0
Lease Inducements Received (ITA 12(1)(x))			0
Deferred Revenue (ITA 12(1)(a))			0
Prior Year Investment Tax Credits received			0
Current Year Investment Tax Credits received			85,000
Total Additions			**64,632,591**
Deductions:			
Gain on disposal of assets per financial statements	401		0
Dividends not taxable under section 83	402		0
Capital cost allowance from Schedule 8	403	B8	93,630,000
Terminal loss from Schedule 8	404	B8	0
Allowable business investment loss	406		0
Deferred and prepaid expenses	409		0
Scientific research expenses claimed in year	411		0
Tax reserves claimed in current year	413	B13	2,367,712
Reserves from financial statements - balance at beginning of year	414	B13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		0
Equity in income from subsidiary or affiliates	306		0
Other deductions			0
Interest capitalized for accounting deducted for tax	395		0
Capital Lease Payments	395		0
Non-taxable imputed interest income on deferral and variance accounts	395		0
Scientific Research & Experimental Development Expenses	395		1,736,959
	395		0
ARO Payments - Deductible for Tax when Paid			0
ITA 13(7.4) Election - Capital Contributions Received			0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			0
Deferred Revenue - ITA 20(1)(m) reserve			0
Principal portion of lease payments			0
Lease Inducement Book Amortization credit to income			0
Financing fees for tax ITA 20(1)(e) and (e.1)			0
Total Deductions		calculated	**101,598,515**
Net Income for Tax Purposes		calculated	**11,083,740**
Charitable donations	311		0
Taxable dividends received under section 112 or 113	320		0
Non-capital losses of previous tax years from Schedule 4	331	B4	0
Net capital losses of previous tax years from Schedule 4	332	B4	0
Limited partnership losses of previous tax years from Schedule 4	335		0
TAXABLE INCOME		calculated	**11,083,740**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year	B1	0	
Loss Carry Forward Generated in Bridge Year (if any)	B1	0	
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Net Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year			
Loss Carry Forward Generated in Bridge Year (if any)	B1		
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the bridge year (column 9 minus column 17)	Working Paper Reference
1	Buildings, Distribution System (acq'd post 1987)	HB	$ 139,884,403	$ -	$ -	$ -	$ -	$ -	$ -	$ 139,884,403	$ -	$ -	0.50	$ -	$ -	4%	$ -	$ -	$ 5,595,376		$ 134,289,026	TB
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	HB	$ 77,431,046	$ 8,718,645	$ 8,718,645	$ -	$ -	$ -	$ -	$ 86,149,691	$ -	$ 8,718,645	0.50	$ 4,359,323	$ -	6%	$ -	$ -	$ 5,430,541		$ 80,719,151	TB
2	Distribution System (acq'd pre 1988)	HB	$ 41,178,719			$ -	$ -	$ -	$ -	$ 41,178,719	$ -	$ -		$ -	$ -	6%	$ -	$ -	$ 2,470,723		$ 38,707,996	TB
3	Buildings (acq'd pre 1988)	HB	$ 4,804,359			$ -	$ -	$ -	$ -	$ 4,804,359	$ -	$ -		$ -	$ -	5%	$ -	$ -	$ 240,218		$ 4,564,141	TB
6	Certain Buildings; Fences	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	10%	$ -	$ -	$ -		$ -	TB
8	General Office Equipment, Furniture, Fixtures	HB	$ 12,967,662	$ 2,882,520	$ 2,882,520	$ -	$ -	$ -	$ -	$ 15,850,182	$ -	$ 2,882,520	0.50	$ 1,441,260	$ -	20%	$ -	$ -	$ 3,458,288		$ 12,391,894	TB
10	Motor Vehicles, Fleet	HB	$ 5,025,013	$ 5,223,986	$ 5,223,986	$ -	$ -	$ -	$ -	$ 10,248,999	$ -	$ 5,223,986	0.50	$ 2,611,993	$ -	30%	$ -	$ -	$ 3,858,298		$ 6,390,702	TB
10.1	Certain Automobiles	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%	$ -	$ -	$ -		$ -	TB
12	Computer Application Software (Non-Systems)	HB	$ -	$ 4,107,240	$ 4,107,240	$ -	$ -	$ -	$ -	$ 4,107,240	$ -	$ 4,107,240	0.00	$ -	$ -	100%	$ -	$ -	$ 4,107,240		$ -	TB
13 $_1$	Lease # 1	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA	$ -	$ -			$ -	TB
13 $_2$	Lease # 2	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA	$ -	$ -			$ -	TB
13 $_3$	Lease # 3	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA	$ -	$ -			$ -	TB
13 $_4$	Lease # 4	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA	$ -	$ -			$ -	TB
14	Limited Period Patents, Franchises, Concessions or Licences	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA	$ -	$ -			$ -	TB
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	HB	$ 8,671,762			$ -	$ -	$ -	$ -	$ 8,671,762	$ -	$ -		$ -	$ -	7%	$ -	$ -	$ 607,023		$ 8,064,739	TB
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	HB	$ 60,885,883	$ 215,847	$ 215,847	$ -	$ -	$ -	$ -	$ 61,101,730	$ -	$ 215,847	0.50	$ 107,924	$ -	5%	$ -	$ -	$ 3,060,483		$ 58,041,247	TB
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	HB	$ 1,635,219	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,635,219	$ -	$ -	0.50	$ -	$ -	8%	$ -	$ -	$ 130,817		$ 1,504,401	TB
42	Fibre Optic Cable	HB	$ 4,216,611	$ 17,278	$ 17,278	$ -	$ -	$ -	$ -	$ 4,233,889	$ -	$ 17,278	0.50	$ 8,639	$ -	12%	$ -	$ -	$ 509,103		$ 3,724,786	TB
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	2.33	$ -	$ -	30%	$ -	$ -	$ -		$ -	TB
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ 100,530	$ 1,242,123	$ 1,242,123	$ -	$ -	$ -	$ -	$ 1,342,653	$ -	$ 1,242,123	1.00	$ 1,242,123	$ -	50%	$ -	$ -	$ 1,292,388		$ 50,265	TB
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	HB	$ 398			$ -	$ -	$ -	$ -	$ 398	$ -	$ -		$ -	$ -	45%	$ -	$ -	$ 179		$ 219	TB
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%	$ -	$ -	$ -		$ -	TB
47	Distribution System (acq'd post Feb 22/05)	HB	$ 608,621,420	$ 97,665,132	$ 97,665,132	$ -	$ -	$ -	$ -	$ 706,286,552	$ -	$ 97,665,132	0.50	$ 48,832,566	$ -	8%	$ -	$ -	$ 60,409,529		$ 645,877,023	TB
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	HB	$ 696,034	$ 2,517,544	$ 2,517,544	$ -	$ -	$ -	$ -	$ 3,213,578	$ -	$ 2,517,544	0.50	$ 1,258,772	$ -	55%	$ -	$ -	$ 2,459,793		$ 753,786	TB
95	CWIP	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	0%	$ -	$ -	$ -		$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
	TOTALS		$ 966,119,059	$ 122,590,315	$ 122,590,315	$ -	$ -	$ -	$ -	$ 1,088,709,374	$ -	$ 122,590,315		$ 59,862,599	$ -		$ -	$ -	$ 93,630,000	B1	$ 995,079,374	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Bridge Year Adjustments: Additions	Bridge Year Adjustments: Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	H13	0		0				0	T13	0	
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(l)	H13	2,367,712		2,367,712				2,367,712	T13	0	
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	T13	0	
Reserve for unpaid amounts ss. 20(1)(n)	H13	0		0				0	T13	0	
Debt & share issue expenses ss. 20(1)(e)	H13	0		0				0	T13	0	
Other tax reserves	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	B1	**0**	**0**	**2,367,712**	B1	**0**	**0**
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13	0	
General Reserve for Bad Debts	H13	3,183,844		3,183,844				3,183,844	T13	0	
Accrued Employee Future Benefits:	H13	0		0				0	T13	0	
- Medical and Life Insurance	H13	0		0				0	T13	0	
- Short & Long-term Disability	H13	0		0				0	T13	0	
- Accumulated Sick Leave	H13	0		0				0	T13	0	
- Termination Cost	H13	0		0				0	T13	0	
- Other Post-Employment Benefits	H13	0		0				0	T13	0	
Provision for Environmental Costs	H13	0		0				0	T13	0	
Restructuring Costs	H13	0		0				0	T13	0	
Accrued Contingent Litigation Costs	H13	0		0				0	T13	0	
Accrued Self-Insurance Costs	H13	0		0				0	T13	0	
Other Contingent Liabilities	H13	0		0				0	T13	0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	H13	0		0				0	T13	0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	H13	0		0				0	T13	0	
Other	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	B1	**0**	**0**	**3,183,844**	B1	**0**	**0**

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Test Year

							Wires Only	
Regulatory Taxable Income						T1	$ 24,184,384	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate				
Ontario (Max 11.5%)	11.5%	11.5%	$ 2,781,204	11.5%	**B**			
Federal (Max 15%)	15.0%	15.0%	$ 3,627,658	15.0%	**C**			
Combined effective tax rate (Max 26.5%)							26.50%	**D = B + C**
Total Income Taxes							**$ 6,408,862**	**E = A * D**
Investment Tax Credits							$ 85,000	**F**
Miscellaneous Tax Credits							$ -	**G**
Total Tax Credits							**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Test Year							**$ 6,323,862**	**I = E - H** S. Summary
Corporate PILs/Income Tax Provision Gross Up [1]						73.50% **J = 1-D**	**$ 2,280,032**	**K = I/J-I**
Income Tax (grossed-up)							**$ 8,603,893**	**L = K + I** S. Summary

Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Taxable Income - Test Year

		Working Paper Reference	Test Year Taxable Income
Net Income Before Taxes		A	50,779,786
	T2 S1 line #		
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets *2-4 ADJUSTED ACCOUNTING DATA P489*	104		59,374,339
Amortization of intangible assets *2-4 ADJUSTED ACCOUNTING DATA P490*	106		
Recapture of capital cost allowance from Schedule 8	107	T8	0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,000
Charitable donations	112		
Taxable Capital Gains	113		
Political Donations	114		
Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements	118		
Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums	123		
Non-deductible company pension plans	124		
Tax reserves beginning of year	125	T13	2,367,712
Reserves from financial statements- balance at end of year	126	T13	3,183,844
Soft costs on construction and renovation of buildings	127		
Book loss on joint ventures or partnerships	205		
Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt	220		
Non-deductible advertising	226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231		
Share issue expense	235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions			
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,000
Non-deductible penalties	295		
	295		
	295		
	295		
	295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits received			85,000
Total Additions			**66,880,895**
Deductions:			
Gain on disposal of assets per financial statements	401		
Dividends not taxable under section 83	402		
Capital cost allowance from Schedule 8	403	T8	86,179,564
Terminal loss from Schedule 8	404	T8	0
Allowable business investment loss	406		
Deferred and prepaid expenses	409		
Scientific research expenses claimed in year	411		
Tax reserves end of year	413	T13	2,367,712
Reserves from financial statements - balance at beginning of year	414	T13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		
Equity in income from subsidiary or affiliates	306		
Other deductions			
Interest capitalized for accounting deducted for tax	395		
Capital Lease Payments	395		
Non-taxable imputed interest income on deferral and variance accounts	395		
Scientific Research & Experimental Development Expenses	395		1,065,178
	395		
	395		
	395		
	395		
ARO Payments - Deductible for Tax when Paid			
ITA 13(7.4) Election - Capital Contributions Received			
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			
Deferred Revenue - ITA 20(1)(m) reserve			
Principal portion of lease payments			
Lease Inducement Book Amortization credit to income			
Financing fees for tax ITA 20(1)(e) and (e.1)			
Total Deductions		calculated	**93,476,298**
NET INCOME FOR TAX PURPOSES		calculated	**24,184,384**
Charitable donations	311		
Taxable dividends received under section 112 or 113	320		
Non-capital losses of previous tax years from Schedule 4	331	T4	0
Net capital losses of previous tax years from Schedule 4	332	T4	0
Limited partnership losses of previous tax years from Schedule 4	335		
REGULATORY TAXABLE INCOME		calculated	**24,184,384** T0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years	T1	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	T1	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	T1	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	BB	$ 134,289,026							$ 134,289,026	$ -	$ -	0.50	$ -	$ -	4%			$ 5,371,561		$ 128,917,465
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	BB	$ 80,719,151	887,335	887,335					$ 81,606,486	$ -	$ 887,335	0.50	$ 443,668	$ -	6%			$ 4,923,009		$ 76,683,476
2	Distribution System (acq'd pre 1988)	BB	$ 38,707,996							$ 38,707,996	$ -	$ -		$ -	$ -	6%			$ 2,322,480		$ 36,385,516
3	Buildings (acq'd pre 1988)	BB	$ 4,564,141							$ 4,564,141	$ -	$ -		$ -	$ -	5%			$ 228,207		$ 4,335,934
6	Certain Buildings; Fences	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -
8	General Office Equipment, Furniture, Fixtures	BB	$ 12,391,894	1,501,981	1,501,981					$ 13,893,875	$ -	$ 1,501,981	0.50	$ 750,991	$ -	20%			$ 2,928,973		$ 10,964,902
10	Motor Vehicles, Fleet	BB	$ 6,390,702	2,233,064	2,233,064					$ 8,623,766	$ -	$ 2,233,064	0.50	$ 1,116,532	$ -	30%			$ 2,922,089		$ 5,701,676
10.1	Certain Automobiles	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
12	Computer Application Software (Non-Systems)	BB	$ -	2,044,296	2,044,296					$ 2,044,296	$ -	$ 2,044,296	0.00	$ -	$ -	100%			$ 2,044,296		$ -
13 $_1$	Lease # 1	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_2$	Lease # 2	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_3$	Lease # 3	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_4$	Lease # 4	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14	Limited Period Patents, Franchises, Concessions or Licences	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	BB	$ 8,064,739							$ 8,064,739	$ -	$ -		$ -	$ -	7%			$ 564,532		$ 7,500,207
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	BB	$ 58,041,247	105,683	105,683					$ 58,146,930	$ -	$ 105,683	0.50	$ 52,842	$ -	5%			$ 2,909,989		$ 55,236,941
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	BB	$ 1,504,401							$ 1,504,401	$ -	$ -	0.50	$ -	$ -	8%			$ 120,352		$ 1,384,049
42	Fibre Optic Cable	BB	$ 3,724,786	17,278	17,278					$ 3,742,064	$ -	$ 17,278	0.50	$ 8,639	$ -	12%			$ 450,084		$ 3,291,979
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ -							$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ 50,265							$ 50,265	$ -	$ -	1.00	$ -	$ -	50%			$ 25,132		$ 25,132
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	BB	$ 219							$ 219	$ -	$ -		$ -	$ -	45%			$ 98		$ 120
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	BB	$ 645,877,023	69,387,174	69,387,174					$ 715,264,197	$ -	$ 69,387,174	0.50	$ 34,693,587	$ -	8%			$ 59,996,623		$ 655,267,574
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	BB	$ 753,786	1,160,674	1,160,674					$ 1,914,460	$ -	$ 1,160,674	0.50	$ 580,337	$ -	55%			$ 1,372,138		$ 542,321
95	CWIP	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
	TOTALS		$ 995,079,374	$ 77,337,485	$ 77,337,485	$ -	$ -	$ -	$ -	$ 1,072,416,859	$ -	$ 77,337,485		$ 37,646,595	$ -		$ -	$ -	$ 86,179,564	T1	$ 986,237,295

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Test Year Adjustments: Additions	Test Year Adjustments: Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	B13	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(l)	B13	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	B13	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	B13	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	B13	0		0				0		0	
Other tax reserves	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	T1	**0**	**0**	**2,367,712**	T1	**0**	**0**
Financial Statement Reserves (not deductible for Tax Purposes)											
General Reserve for Inventory Obsolescence (non-specific)	B13	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	B13	0		0				0		0	
- Medical and Life Insurance	B13	0		0				0		0	
-Short & Long-term Disability	B13	0		0				0		0	
-Accmulated Sick Leave	B13	0		0				0		0	
- Termination Cost	B13	0		0				0		0	
- Other Post-Employment Benefits	B13	0		0				0		0	
Provision for Environmental Costs	B13	0		0				0		0	
Restructuring Costs	B13	0		0				0		0	
Accrued Contingent Litigation Costs	B13	0		0				0		0	
Accrued Self-Insurance Costs	B13	0		0				0		0	
Other Contingent Liabilities	B13	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	B13	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	B13	0		0				0		0	
Other	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	T1	**0**	**0**	**3,183,844**	T1	**0**	**0**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Version 1.10

Utility Name	Hydro Ottawa Limited
Assigned EB Number	EB-2019-0261
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs
Phone Number	613-738-5499,7472
Email Address	RegulatoryAffairs@hydroottawa.com
Date	ORIGINAL
Last COS Re-based Year	2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

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

Instructions

Purpose
The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab T0 and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology
To calculate the PILs for the Test Year:

1) input the balances from the income tax return of the Historical Year in tabs H1 to H13.
2) input the balances for the Bridge Year and the Test Year.
Inputs should include:
- non-deductible expenses (Schedule 1 - B1 and T1)
- loss carryforward (Schedule 4 - B4 and T4)
- capital cost allowance (Schedule 8 - B8 and T8)
- non-deductible reserves (Schedule 13 - B13 and T13)

3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

1. Info
S. Summary
A. Data Input Sheet
B. Tax Rates & Exemptions

Historical Year
H0 - PILs, Tax Provision Historical Year
H1 - Adj. Taxable Income Historical Year
H4 - Schedule 4 Loss Carry Forward Historical Year
H8 - Schedule 8 Historical
H13 - Schedule 13 Tax Reserves Historical

Bridge Year
B0 - PILs,Tax Provision Bridge Year
B1 - Adj. Taxable Income Bridge Year
B4 - Schedule 4 Loss Carry Forward Bridge Year
B8 - Schedule 8 CCA Bridge Year
B13 - Schedule 13 Tax Reserves Bridge Year

Test Year
T0 PILs, Tax Provision Test Year
T1 Taxable Income Test Year
T4 Schedule 4 Loss Carry Forward Test Year
T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

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Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference		
Adjustments required to arrive at taxable income	as below	**-20,045,429**	
Test Year - Payments in Lieu of Taxes (PILs)	T0	**8,476,530**	
Test Year - Grossed-up PILs	T0	**11,532,693**	
Effective Federal Tax Rate	T0	**15.0%**	
Effective Ontario Tax Rate	T0	**11.5%**	
Calculation of Adjustments required to arrive at Taxable Income			
Regulatory Income (before income taxes)	T1	52,353,088	
Taxable Income	T1	32,307,659	
Difference	calculated	-20,045,429	as above

Income Tax/PILs Workform for 2020 Filers

Integrity Checks

The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	Item	Utility Confirmation (Y/N)	Notes
1	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
3	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
4	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed in the application	Y	
5	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7	CCA is maximized even if there are tax loss carry-forwards	Y	
8	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario reports, and actuarial valuations.	Y	
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	

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Income Tax/PILs Workform for 2020 Filers

			Test Year	Bridge Year	
Rate Base		S	**$ 1,390,889,704**	**$ 1,363,581,802**	
Return on Ratebase					
Deemed ShortTerm Debt %	4.00%	T	$ 55,635,588	*W = S * T*	
Deemed Long Term Debt %	56.00%	U	$ 778,898,234	*X = S * U*	
Deemed Equity %	40.00%	V	$ 556,355,882	*Y = S * V*	
Short Term Interest Rate	2.75%	Z	$ 1,529,979	*AC = W * Z*	
Long Term Interest	3.44%	AA	$ 26,794,099	*AD = X * AA*	
Return on Equity (Regulatory Income)	9.41%	AB	**$ 52,353,088**	*AE = Y * AB*	T1
Return on Rate Base			**$ 80,677,166**	*AF = AC + AD + AE*	

Questions that must be answered

	Historical Year	Bridge Year	Test Year
1. Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? *If Yes, please describe the tax treatment in the manager's summary.*	Yes	Yes	Yes
8. Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

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Income Tax/PILs Workform for 2020 Filers

Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax						
General Corporate Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
Federal Tax Abatement	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
Adjusted Federal Rate	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
Federal Income Tax	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
Combined Federal and Ontario	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business						
Federal Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

Notes

1. The Ontario Energy Board's proxy for taxable capital is rate base.
2. Regarding the small business deduction, if applicable,
   a. If taxable capital exceeds $15 million, the small business rate will not be applicable.
   b. If taxable capital is below $10 million, the small business rate would be applicable.
   c. If taxable capital is between $10 million and $15 million, the appropriate small business rate will be calculated.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

					Wires Only	
Regulatory Taxable Income				H1	$ 11,083,740	**A**
Combined Tax Rate and PILs	Ontario Tax Rate (Maximum 11.5%)	11.50%	**B**			
	Federal tax rate (Maximum 15%)	15.00%	**C**			
	Combined tax rate (Maximum 26.5%)				26.50%	**D = B+C**
Total Income Taxes					**$ 2,937,191**	**E = A * D**
Investment Tax Credits					$ 85,000	**F**
Miscellaneous Tax Credits					$ -	**G**
Total Tax Credits					**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Historical Year					**$ 2,852,191**	**I = E - H**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal Entity	Non-Distribution Eliminations	Historic Wires Only
Income before PILs/Taxes	(A + 101 + 102)	48,049,664		48,049,664
Additions:				
Interest and penalties on taxes	103	5,000		5,000
Amortization of tangible assets	104	57,126,035		57,126,035
Amortization of intangible assets	106	0		0
Recapture of capital cost allowance from Schedule 8	107	0		0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108	0		0
Loss in equity of subsidiaries and affiliates	110	0		0
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2	112	0		0
Taxable capital gains from Schedule 6	113	0		0
Political contributions	114	0		0
Deferred and prepaid expenses	116	0		0
Scientific research expenditures deducted on financial statements	118	0		0
Capitalized interest	119	0		0
Non-deductible club dues and fees	120	0		0
Non-deductible meals and entertainment expense	121	85,000		85,000
Non-deductible automobile expenses	122	0		0
Non-deductible life insurance premiums	123	0		0
Non-deductible company pension plans	124	0		0
Tax reserves deducted in prior year	125	2,367,712		2,367,712
Reserves from financial statements – balance at the end of the year	126	3,183,844		3,183,844
Soft costs on construction and renovation of buildings	127	0		0
Capital items expensed	206	0		0
Debt issue expense	208	0		0
Development expenses claimed in current year	212	0		0
Financing fees deducted in books	216	0		0
Gain on settlement of debt	220	0		0
Non-deductible advertising	226	0		0
Non-deductible interest	227	0		0
Non-deductible legal and accounting fees	228	0		0
Recapture of SR&ED expenditures	231	0		0
Share issue expense	235	0		0
Write down of capital property	236	0		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		0
Other additions				
Interest Expensed on Capital Leases	295	0		0
Realized Income from Deferred Credit Accounts	295	0		0
Pensions	295	780,000		780,000
Non-deductible penalties	295	0		0
	295	0		0
	295	0		0
ARO Accretion expense		0		0
Capital Contributions Received (ITA 12(1)(x))		0		0
Lease Inducements Received (ITA 12(1)(x))		0		0
Deferred Revenue (ITA 12(1)(a))		0		0
Prior Year Investment Tax Credits received		0		0
Current Year Investment Tax Credits received		85,000		85,000
				0
				0
				0
				0
				0
				0
				0
				0
				0
Total Additions		**64,632,591**	**0**	**64,632,591**
Deductions:				
Gain on disposal of assets per financial statements	401	0		0
Non-taxable dividends under section 83	402	0		0
Capital cost allowance from Schedule 8	403	93,630,000		93,630,000
Terminal loss from Schedule 8	404	0		0
Allowable business investment loss	406	0		0
Deferred and prepaid expenses	409	0		0
Scientific research expenses claimed in year	411	0		0
Tax reserves claimed in current year	413	2,367,712		2,367,712
Reserves from financial statements - balance at beginning of year	414	3,183,844		3,183,844
Contributions to deferred income plans	416	680,000		680,000
Book income of joint venture or partnership	305	0		0
Equity in income from subsidiary or affiliates	306	0		0
Other deductions				
Interest capitalized for accounting deducted for tax	395	0		0
Capital Lease Payments	395	0		0
Non-taxable imputed interest income on deferral and variance accounts	395	0		0
Scientific Research & Experimental Development Expenses	395	1,736,959		1,736,959
	395	0		0
ARO Payments - Deductible for Tax when Paid		0		0
ITA 13(7.4) Election - Capital Contributions Received		0		0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds		0		0
Deferred Revenue - ITA 20(1)(m) reserve		0		0
Principal portion of lease payments		0		0
Lease Inducement Book Amortization credit to income		0		0
Financing fees for tax ITA 20(1)(e) and (e.1)		0		0
				0
				0
				0
				0
				0
				0
				0
				0
Total Deductions		**101,598,515**	**0**	**101,598,515**
Net Income for Tax Purposes		**11,083,740**	**0**	**11,083,740**
Charitable donations from Schedule 2	311	0		0
Taxable dividends received under section 112 or 113	320	0		0
Non-capital losses of previous tax years from Schedule 4	331	0		0
Net capital losses of previous tax years from Schedule 4	332	0		0
Limited partnership losses of previous tax years from Schedule 4	335	0		0
TAXABLE INCOME		**11,083,740**	**0**	**11,083,740**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Net Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

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Income Tax/PILs Workform for 2020 Filers

Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	$ 134,289,026		$ 134,289,026
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	$ 80,719,151		$ 80,719,151
2	Distribution System (acq'd pre 1988)	$ 38,707,996		$ 38,707,996
3	Buildings (acq'd pre 1988)	$ 4,564,141		$ 4,564,141
6	Certain Buildings; Fences	$ -		$ -
8	General Office Equipment, Furniture, Fixtures	$ 12,391,894		$ 12,391,894
10	Motor Vehicles, Fleet	$ 6,390,702		$ 6,390,702
10.1	Certain Automobiles	$ -		$ -
12	Computer Application Software (Non-Systems)	$ -		$ -
13 1	Lease # 1	$ -		$ -
13 2	Lease # 2	$ -		$ -
13 3	Lease # 3	$ -		$ -
13 4	Lease # 4	$ -		$ -
14	Limited Period Patents, Franchises, Concessions or Licences	$ -		$ -
14.1	Eligible Capital Property (acq'd pre 2017)	$ 8,064,739		$ 8,064,739
14.1	Eligible Capital Property (acq'd post 2016)	$ 58,041,247		$ 58,041,247
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	$ 1,504,401		$ 1,504,401
42	Fibre Optic Cable	$ 3,724,786		$ 3,724,786
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	$ 50,265		$ 50,265
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	$ 219		$ 219
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	$ 645,877,023		$ 645,877,023
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	$ 753,786		$ 753,786
95	CWIP	$ -		$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
	SUB-TOTAL - UCC	**995,079,374**	**0**	**995,079,374**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only	
Capital gains reserves ss.40(1)			0	B13
Tax reserves not deducted for accounting purposes				
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712	B13
Reserve for undelivered goods and services not rendered ss. 20(1)(m)			0	B13
Reserve for unpaid amounts ss. 20(1)(n)			0	B13
Debt & share issue expenses ss. 20(1)(e)			0	B13
Other tax reserves			0	B13
			0	
			0	
			0	
			0	
			0	
Total	**2,367,712**	**0**	**2,367,712**	
Financial Statement Reserves (not deductible for Tax Purposes)				
General reserve for inventory obsolescence (non-specific)			0	B13
General reserve for bad debts	3,183,844		3,183,844	B13
Accrued Employee Future Benefits:			0	B13
- Medical and Life Insurance			0	B13
-Short & Long-term Disability			0	B13
-Accmulated Sick Leave			0	B13
- Termination Cost			0	B13
- Other Post-Employment Benefits			0	B13
Provision for Environmental Costs			0	B13
Restructuring Costs			0	B13
Accrued Contingent Litigation Costs			0	B13
Accrued Self-Insurance Costs			0	B13
Other Contingent Liabilities			0	B13
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)			0	B13
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)			0	B13
Other			0	B13
			0	
			0	
Total	**3,183,844**	**0**	**3,183,844**	

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Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

						Wires Only	
					Reference		
Regulatory Taxable Income					B1	$ 24,184,384	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate			
Ontario (Max 11.5%)	11.5%	11.5%	########	11.5%	**B**		
Federal (Max 15%)	15.0%	15.0%	########	15.0%	**C**		
Combined effective tax rate (Max 26.5%)						26.50%	**D = B + C**
Total Income Taxes						**$ 6,408,862**	**E = A * D**
Investment Tax Credits						$ 85,000	**F**
Miscellaneous Tax Credits						$ -	**G**
Total Tax Credits						**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Bridge Year						**$ 6,323,862**	**I = E - H**

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Bridge Year

	T2S1 line #	Working Paper Reference	Total for Regulated Utility
Income before PILs/Taxes	**(A + 101 + 102)**		50,779,786
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets	104		59,374,339
Amortization of intangible assets	106		0
Recapture of capital cost allowance from Schedule 8	107	B8	0
Income inclusion under subparagraph 13(38)(d)(iii)	108		0
Income or loss for tax purposes- joint ventures or partnerships	109		
Loss in equity of subsidiaries and affiliates	110		0
Loss on disposal of assets	111		1,000,000
Charitable donations and gifts from Schedule 2	112		0
Taxable capital gains	113		0
Political contributions	114		0
Deferred and prepaid expenses	116		0
Scientific research expenditures deducted on financial statements	118		0
Capitalized interest	119		0
Non-deductible club dues and fees	120		0
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		0
Non-deductible life insurance premiums	123		0
Non-deductible company pension plans	124		0
Tax reserves deducted in prior year	125	B13	2,367,712
Reserves from financial statements- balance at end of year	126	B13	3,183,844
Soft costs on construction and renovation of buildings	127		0
Capital items expensed	206		0
Debt issue expense	208		0
Development expenses claimed in current year	212		0
Financing fees deducted in books	216		0
Gain on settlement of debt	220		0
Non-deductible advertising	226		0
Non-deductible interest	227		0
Non-deductible legal and accounting fees	228		0
Recapture of SR&ED expenditures	231		0
Share issue expense	235		0
Write down of capital property	236		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		0
Other Additions			
Interest Expensed on Capital Leases	295		0
Realized Income from Deferred Credit Accounts	295		0
Pensions	295		780,000
Non-deductible penalties	295		0
	295		0
	295		0
ARO Accretion expense			0
Capital Contributions Received (ITA 12(1)(x))			0
Lease Inducements Received (ITA 12(1)(x))			0
Deferred Revenue (ITA 12(1)(a))			0
Prior Year Investment Tax Credits received			0
Current Year Investment Tax Credits received			85,000
Total Additions			**66,880,895**
Deductions:			
Gain on disposal of assets per financial statements	401		0
Dividends not taxable under section 83	402		0
Capital cost allowance from Schedule 8	403	B8	86,179,564
Terminal loss from Schedule 8	404	B8	0
Allowable business investment loss	406		0
Deferred and prepaid expenses	409		0
Scientific research expenses claimed in year	411		0
Tax reserves claimed in current year	413	B13	2,367,712
Reserves from financial statements - balance at beginning of year	414	B13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		0
Equity in income from subsidiary or affiliates	306		0
Other deductions			0
Interest capitalized for accounting deducted for tax	395		0
Capital Lease Payments	395		0
Non-taxable imputed interest income on deferral and variance accounts	395		0
Scientific Research & Experimental Development Expenses	395		1,065,178
	395		0
ARO Payments - Deductible for Tax when Paid			0
ITA 13(7.4) Election - Capital Contributions Received			0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			0
Deferred Revenue - ITA 20(1)(m) reserve			0
Principal portion of lease payments			0
Lease Inducement Book Amortization credit to income			0
Financing fees for tax ITA 20(1)(e) and (e.1)			0
Total Deductions		calculated	**93,476,298**
Net Income for Tax Purposes		calculated	**24,184,384**
Charitable donations	311		0
Taxable dividends received under section 112 or 113	320		0
Non-capital losses of previous tax years from Schedule 4	331	B4	0
Net capital losses of previous tax years from Schedule 4	332	B4	0
Limited partnership losses of previous tax years from Schedule 4	335		0
TAXABLE INCOME		calculated	**24,184,384**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year	B1	0	
Loss Carry Forward Generated in Bridge Year (if any)	B1	0	
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Net Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year			
Loss Carry Forward Generated in Bridge Year (if any)	B1		
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

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Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the bridge year (column 9 minus column 17)	Working Paper Reference
1	Buildings, Distribution System (acq'd post 1987)	HB	$ 134,289,026	$ -	$ -	$ -	$ -	$ -	$ -	$ 134,289,026	$ -	$ -	0.50	$ -	$ -	4%			$ 5,371,561		$ 128,917,465	TB
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	HB	$ 80,719,151	$ 887,335	$ 887,335	$ -	$ -	$ -	$ -	$ 81,606,486	$ -	$ 887,335	0.50	$ 443,668	$ -	6%			$ 4,923,009		$ 76,683,476	TB
2	Distribution System (acq'd pre 1988)	HB	$ 38,707,996			$ -	$ -	$ -	$ -	$ 38,707,996	$ -	$ -		$ -	$ -	6%			$ 2,322,480		$ 36,385,516	TB
3	Buildings (acq'd pre 1988)	HB	$ 4,564,141			$ -	$ -	$ -	$ -	$ 4,564,141	$ -	$ -		$ -	$ -	5%			$ 228,207		$ 4,335,934	TB
6	Certain Buildings; Fences	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -	TB
8	General Office Equipment, Furniture, Fixtures	HB	$ 12,391,894	$ 1,501,981	$ 1,501,981	$ -	$ -	$ -	$ -	$ 13,893,875	$ -	$ 1,501,981	0.50	$ 750,991	$ -	20%			$ 2,928,973		$ 10,964,902	TB
10	Motor Vehicles, Fleet	HB	$ 6,390,702	$ 2,233,064	$ 2,233,064	$ -	$ -	$ -	$ -	$ 8,623,766	$ -	$ 2,233,064	0.50	$ 1,116,532	$ -	30%			$ 2,922,089		$ 5,701,676	TB
10.1	Certain Automobiles	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	TB
12	Computer Application Software (Non-Systems)	HB	$ -	$ 2,044,296	$ 2,044,296	$ -	$ -	$ -	$ -	$ 2,044,296	$ -	$ 2,044,296	0.00	$ -	$ -	100%			$ 2,044,296		$ -	TB
13 $_1$	Lease # 1	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	TB
13 $_2$	Lease # 2	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	TB
13 $_3$	Lease # 3	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	TB
13 $_4$	Lease # 4	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	TB
14	Limited Period Patents, Franchises, Concessions or Licences	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	TB
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	HB	$ 8,064,739			$ -	$ -	$ -	$ -	$ 8,064,739	$ -	$ -		$ -	$ -	7%			$ 564,532		$ 7,500,207	TB
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	HB	$ 58,041,247	$ 105,683	$ 105,683	$ -	$ -	$ -	$ -	$ 58,146,930	$ -	$ 105,683	0.50	$ 52,842	$ -	5%			$ 2,909,989		$ 55,236,941	TB
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	HB	$ 1,504,401	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,504,401	$ -	$ -	0.50	$ -	$ -	8%			$ 120,352		$ 1,384,049	TB
42	Fibre Optic Cable	HB	$ 3,724,786	$ 17,278	$ 17,278	$ -	$ -	$ -	$ -	$ 3,742,064	$ -	$ 17,278	0.50	$ 8,639	$ -	12%			$ 450,084		$ 3,291,979	TB
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -	TB
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ 50,265	$ -	$ -	$ -	$ -	$ -	$ -	$ 50,265	$ -	$ -	1.00	$ -	$ -	50%			$ 25,132		$ 25,132	TB
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	HB	$ 219			$ -	$ -	$ -	$ -	$ 219	$ -	$ -		$ -	$ -	45%			$ 98		$ 120	TB
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	TB
47	Distribution System (acq'd post Feb 22/05)	HB	$ 645,877,023	$ 69,387,174	$ 69,387,174	$ -	$ -	$ -	$ -	$ 715,264,197	$ -	$ 69,387,174	0.50	$ 34,693,587	$ -	8%			$ 59,996,623		$ 655,267,574	TB
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	HB	$ 753,786	$ 1,160,674	$ 1,160,674	$ -	$ -	$ -	$ -	$ 1,914,460	$ -	$ 1,160,674	0.50	$ 580,337	$ -	55%			$ 1,372,138		$ 542,321	TB
95	CWIP	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -	TB
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
		HB	$ -							$ -	$ -	$ -		$ -	$ -						$ -	TB
	TOTALS		$ 995,079,374	$ 77,337,485	$ 77,337,485	$ -	$ -	$ -	$ -	$ 1,072,416,859	$ -	$ 77,337,485		$ 37,646,595	$ -		$ -	$ -	$ 86,179,564	B1	$ 986,237,295	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Bridge Year Adjustments: Additions	Bridge Year Adjustments: Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	H13	0		0				0	T13	0	
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(l)	H13	2,367,712		2,367,712				2,367,712	T13	0	
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	T13	0	
Reserve for unpaid amounts ss. 20(1)(n)	H13	0		0				0	T13	0	
Debt & share issue expenses ss. 20(1)(e)	H13	0		0				0	T13	0	
Other tax reserves	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	B1	**0**	**0**	**2,367,712**	B1	**0**	**0**
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13	0	
General Reserve for Bad Debts	H13	3,183,844		3,183,844				3,183,844	T13	0	
Accrued Employee Future Benefits:	H13	0		0				0	T13	0	
- Medical and Life Insurance	H13	0		0				0	T13	0	
- Short & Long-term Disability	H13	0		0				0	T13	0	
- Accumulated Sick Leave	H13	0		0				0	T13	0	
- Termination Cost	H13	0		0				0	T13	0	
- Other Post-Employment Benefits	H13	0		0				0	T13	0	
Provision for Environmental Costs	H13	0		0				0	T13	0	
Restructuring Costs	H13	0		0				0	T13	0	
Accrued Contingent Litigation Costs	H13	0		0				0	T13	0	
Accrued Self-Insurance Costs	H13	0		0				0	T13	0	
Other Contingent Liabilities	H13	0		0				0	T13	0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	H13	0		0				0	T13	0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	H13	0		0				0	T13	0	
Other	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	B1	**0**	**0**	**3,183,844**	B1	**0**	**0**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Test Year

							Wires Only	
Regulatory Taxable Income						T1	$ 32,307,659	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate				
Ontario (Max 11.5%)	11.5%	11.5%	$ 3,715,381	11.5%	**B**			
Federal (Max 15%)	15.0%	15.0%	$ 4,846,149	15.0%	**C**			
Combined effective tax rate (Max 26.5%)							26.50%	**D = B + C**
Total Income Taxes							**$ 8,561,530**	**E = A * D**
Investment Tax Credits							$ 85,000	**F**
Miscellaneous Tax Credits								**G**
Total Tax Credits							**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Test Year							**$ 8,476,530**	**I = E - H** S. Su
Corporate PILs/Income Tax Provision Gross Up [1]						73.50% **J = 1-D**	**$ 3,056,164**	**K = I/J-I**
Income Tax (grossed-up)							**$ 11,532,693**	**L = K + I** S. Su

Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Taxable Income - Test Year

		Working Paper Reference	Test Year Taxable Income
Net Income Before Taxes		A	52,353,088
	T2 S1 line #		
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets *2-4 ADJUSTED ACCOUNTING DATA P489*	104		60,928,907
Amortization of intangible assets *2-4 ADJUSTED ACCOUNTING DATA P490*	106		
Recapture of capital cost allowance from Schedule 8	107	T8	0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,000
Charitable donations	112		
Taxable Capital Gains	113		
Political Donations	114		
Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements	118		
Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums	123		
Non-deductible company pension plans	124		
Tax reserves beginning of year	125	T13	2,367,712
Reserves from financial statements- balance at end of year	126	T13	3,183,844
Soft costs on construction and renovation of buildings	127		
Book loss on joint ventures or partnerships	205		
Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt	220		
Non-deductible advertising	226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231		
Share issue expense	235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions			
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,000
Non-deductible penalties	295		
	295		
	295		
	295		
	295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits received			85,000
Total Additions			**68,435,463**
Deductions:			
Gain on disposal of assets per financial statements	401		
Dividends not taxable under section 83	402		
Capital cost allowance from Schedule 8	403	T8	80,027,985
Terminal loss from Schedule 8	404	T8	0
Allowable business investment loss	406		
Deferred and prepaid expenses	409		
Scientific research expenses claimed in year	411		
Tax reserves end of year	413	T13	2,367,712
Reserves from financial statements - balance at beginning of year	414	T13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		
Equity in income from subsidiary or affiliates	306		
Other deductions			
Interest capitalized for accounting deducted for tax	395		
Capital Lease Payments	395		
Non-taxable imputed interest income on deferral and variance accounts	395		
Scientific Research & Experimental Development Expenses	395		2,221,351
	395		
	395		
	395		
	395		
ARO Payments - Deductible for Tax when Paid			
ITA 13(7.4) Election - Capital Contributions Received			
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			
Deferred Revenue - ITA 20(1)(m) reserve			
Principal portion of lease payments			
Lease Inducement Book Amortization credit to income			
Financing fees for tax ITA 20(1)(e) and (e.1)			
Total Deductions		calculated	**88,480,892**
NET INCOME FOR TAX PURPOSES		calculated	**32,307,659**
Charitable donations	311		
Taxable dividends received under section 112 or 113	320		
Non-capital losses of previous tax years from Schedule 4	331	T4	0
Net capital losses of previous tax years from Schedule 4	332	T4	0
Limited partnership losses of previous tax years from Schedule 4	335		
REGULATORY TAXABLE INCOME		calculated	**32,307,659** T0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years	T1	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	T1	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	T1	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	BB	$ 128,917,465							$ 128,917,465	$ -	$ -	0.50	$ -	$ -	4%			$ 5,156,699		$ 123,760,767
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	BB	$ 76,683,476	1,283,620	1,283,620					$ 77,967,096	$ -	$ 1,283,620	0.50	$ 641,810	$ -	6%			$ 4,716,534		$ 73,250,562
2	Distribution System (acq'd pre 1988)	BB	$ 36,385,516							$ 36,385,516	$ -	$ -		$ -	$ -	6%			$ 2,183,131		$ 34,202,385
3	Buildings (acq'd pre 1988)	BB	$ 4,335,934							$ 4,335,934	$ -	$ -		$ -	$ -	5%			$ 216,797		$ 4,119,137
6	Certain Buildings; Fences	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -
8	General Office Equipment, Furniture, Fixtures	BB	$ 10,964,902	1,279,222	1,279,222					$ 12,244,124	$ -	$ 1,279,222	0.50	$ 639,611	$ -	20%			$ 2,576,747		$ 9,667,377
10	Motor Vehicles, Fleet	BB	$ 5,701,676	1,844,412	1,844,412					$ 7,546,088	$ -	$ 1,844,412	0.50	$ 922,206	$ -	30%			$ 2,540,488		$ 5,005,600
10.1	Certain Automobiles	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
12	Computer Application Software (Non-Systems)	BB	$ -	69,232	69,232					$ 69,232	$ -	$ 69,232	0.00	$ -	$ -	100%			$ 69,232		$ -
13 1	Lease # 1	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 2	Lease # 2	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 3	Lease # 3	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 4	Lease # 4	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14	Limited Period Patents, Franchises, Concessions or Licences	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	BB	$ 7,500,207							$ 7,500,207	$ -	$ -		$ -	$ -	7%			$ 525,015		$ 6,975,193
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	BB	$ 55,236,841	2,135,698	2,135,698					$ 57,372,539	$ -	$ 2,135,698	0.50	$ 1,067,849	$ -	5%			$ 2,922,024		$ 54,450,615
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	BB	$ 1,384,049							$ 1,384,049	$ -	$ -	0.50	$ -	$ -	8%			$ 110,724		$ 1,273,325
42	Fibre Optic Cable	BB	$ 3,291,979	17,278	17,278					$ 3,309,257	$ -	$ 17,278	0.50	$ 8,639	$ -	12%			$ 398,148		$ 2,911,110
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ -							$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ 25,132							$ 25,132	$ -	$ -	1.00	$ -	$ -	50%			$ 12,566		$ 12,566
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	BB	$ 120							$ 120	$ -	$ -		$ -	$ -	45%			$ 54		$ 66
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	BB	$ 655,267,574	73,617,583	73,617,583					$ 728,885,157	$ -	$ 73,617,583	0.50	$ 36,808,792	$ -	8%			$ 61,255,516		$ 667,629,641
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	BB	$ 542,321	887,744	887,744					$ 1,430,065	$ -	$ 887,744	0.50	$ 443,872	$ -	55%			$ 1,030,666		$ 399,400
95	CWIP	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -
	2024 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal CCA)	BB	$ -							$ -	$ -	$ -		$ -	$ -				$ 3,686,355		$ 3,686,355
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
	TOTALS		$ 986,237,295	$ 81,134,789	$ 81,134,789	$ -	$ -	$ -	$ -	$ 1,067,372,084	$ -	$ 81,134,789		$ 40,532,779	$ -		$ -	$ -	$ 80,027,985	T1	$ 987,344,099

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Test Year Adjustments: Additions	Test Year Adjustments: Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	B13	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(l)	B13	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	B13	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	B13	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	B13	0		0				0		0	
Other tax reserves	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	T1	**0**	**0**	**2,367,712**	T1	**0**	**0**
Financial Statement Reserves (not deductible for Tax Purposes)											
General Reserve for Inventory Obsolescence (non-specific)	B13	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	B13	0		0				0		0	
- Medical and Life Insurance	B13	0		0				0		0	
-Short & Long-term Disability	B13	0		0				0		0	
-Accmulated Sick Leave	B13	0		0				0		0	
- Termination Cost	B13	0		0				0		0	
- Other Post-Employment Benefits	B13	0		0				0		0	
Provision for Environmental Costs	B13	0		0				0		0	
Restructuring Costs	B13	0		0				0		0	
Accrued Contingent Litigation Costs	B13	0		0				0		0	
Accrued Self-Insurance Costs	B13	0		0				0		0	
Other Contingent Liabilities	B13	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	B13	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	B13	0		0				0		0	
Other	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	T1	**0**	**0**	**3,183,844**	T1	**0**	**0**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Version 1.10

Utility Name	Hydro Ottawa Limited
Assigned EB Number	EB-2019-0261
Name and Title	Gregory Van Dusen, Director, Regulatory Affairs
Phone Number	613-738-5499,7472
Email Address	RegulatoryAffairs@hydroottawa.com
Date	ORIGINAL
Last COS Re-based Year	2016

Note: Drop-down lists are shaded blue; Input cells are shaded green.

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

Instructions

Purpose
The purpose of this workbook is to calculate the estimated Payment in Lieu of Taxes (PILs) for the Test Year. The calculation of PILs for the Test Year is on tab T0 and is based on the inputs on the other tabs.

Tab S Summary is a summary of the amounts to be transferred to the Data Input Sheet of the Revenue Requirement Workform.

Tab S1 Integrity Checks must be completed after the completion of the PILs calculation in this workbook.

Methodology
To calculate the PILs for the Test Year:

1) input the balances from the income tax return of the Historical Year in tabs H1 to H13.
2) input the balances for the Bridge Year and the Test Year.
Inputs should include:
- non-deductible expenses (Schedule 1 - B1 and T1)
- loss carryforward (Schedule 4 - B4 and T4)
- capital cost allowance (Schedule 8 - B8 and T8)
- non-deductible reserves (Schedule 13 - B13 and T13)

3) make any other adjustments and inputs required so that the PILs amount calculated for the Test Year on tab T0 is reasonable.

Other Notes
Tabs H0 to H13 relate to the Historical Year.
Tabs B0 to B13 relate to the Bridge Year.
Tabs T0 to T13 relate to the Test Year.

The amounts on tabs H0 to H13 should agree to the tax return filed with the Canada Revenue Agency. Any CRA audit adjustments or corrections should also be reflected.

It is assumed the net income before tax for the Test Year is equal to the Return on Equity. Return on Equity is calculated on tab A.

On tab "A. Data Input Sheet", input the "Rate Base" amount and "Return on Rate Base" amounts.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

1. Info
S. Summary
A. Data Input Sheet
B. Tax Rates & Exemptions

Historical Year
H0 - PILs, Tax Provision Historical Year
H1 - Adj. Taxable Income Historical Year
H4 - Schedule 4 Loss Carry Forward Historical Year
H8 - Schedule 8 Historical
H13 - Schedule 13 Tax Reserves Historical

Bridge Year
B0 - PILs,Tax Provision Bridge Year
B1 - Adj. Taxable Income Bridge Year
B4 - Schedule 4 Loss Carry Forward Bridge Year
B8 - Schedule 8 CCA Bridge Year
B13 - Schedule 13 Tax Reserves Bridge Year

Test Year
T0 PILs, Tax Provision Test Year
T1 Taxable Income Test Year
T4 Schedule 4 Loss Carry Forward Test Year
T8 Schedule 8 CCA Test Year
T13 Schedule 13 Reserve Test Year

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

No inputs required on this worksheet.

Inputs on Service Revenue Requirement Worksheet

The Service Revenue Requirement is in the 'Revenue Requirement Workform' - Tab 3.

Item	Working Paper Reference	
Adjustments required to arrive at taxable income	as below	**-32,889,661**
Test Year - Payments in Lieu of Taxes (PILs)	T0	**5,578,536**
Test Year - Grossed-up PILs	T0	**7,589,845**
Effective Federal Tax Rate	T0	**15.0%**
Effective Ontario Tax Rate	T0	**11.5%**

Calculation of Adjustments required to arrive at Taxable Income			
Regulatory Income (before income taxes)	T1	54,261,496	
Taxable Income	T1	21,371,835	
Difference	calculated	-32,889,661	as above

Income Tax/PILs Workform for 2020 Filers

Integrity Checks

The applicant must ensure the following integrity checks have been completed and confirm this is the case in the table below, or provide an explanation if this is not the case:

	Item	Utility Confirmation (Y/N)	Notes
1	The depreciation and amortization added back in the application's PILs model agree with the numbers disclosed in the rate base section of the application	Y	
2	The capital additions and deductions in the CCA Schedule 8 agree with the rate base section for historical, bridge and test years	Y	
3	Schedule 8 of the most recent federal T2 tax return filed with the application has a closing December 31 historical year UCC that agrees with the opening (January 1) bridge year UCC. If the amounts do not agree, then the applicant must provide a reconciliation with explanations. Distributors must segregate non-distribution tax amounts on Schedule 8.	Y	
4	The CCA deductions in the application's PILs tax model for historical, bridge and test years (as applicable) agree with the numbers in the CCA Schedule 8 for the same years filed in the application	Y	
5	Loss carry-forwards, if any, from prior year tax returns' Schedule 4 agree with those disclosed in the application	NA	
6	A discussion is included in the application as to when the loss carry-forwards, if any, will be fully utilized	NA	
7	CCA is maximized even if there are tax loss carry-forwards	Y	
8	Other post-employment benefits and pension expenses that are added back on Schedule 1 to reconcile accounting income to net income for tax purposes agree with the OM&A analysis for compensation. The amounts deducted are reasonable when compared with the notes to the audited financial statements, Financial Services Commission of Ontario reports, and actuarial valuations.	Y	
9	The income tax rate used to calculate the tax expense is consistent with the utility's actual tax facts and evidence filed in the application	Y	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

			Test Year	Bridge Year	
Rate Base		S	**$ 1,433,971,888**	**$ 1,390,889,704**	
Return on Ratebase					
Deemed ShortTerm Debt %	4.00%	T	$ 57,358,876	*W = S * T*	
Deemed Long Term Debt %	56.00%	U	$ 803,024,257	*X = S * U*	
Deemed Equity %	40.00%	V	$ 573,588,755	*Y = S * V*	
Short Term Interest Rate	2.75%	Z	$ 1,577,369	*AC = W * Z*	
Long Term Interest	3.69%	AA	$ 29,631,595	*AD = X * AA*	
Return on Equity (Regulatory Income)	9.46%	AB	**$ 54,261,496**	*AE = Y * AB*	T1
Return on Rate Base			**$ 85,470,460**	*AF = AC + AD + AE*	

Questions that must be answered

	Historical Year	Bridge Year	Test Year
1. Does the applicant have any Investment Tax Credits (ITC)?	Yes	Yes	Yes
2. Does the applicant have any SRED Expenditures?	Yes	Yes	Yes
3. Does the applicant have any Capital Gains or Losses for tax purposes?	No	No	No
4. Does the applicant have any Capital Leases?	No	No	No
5. Does the applicant have any Loss Carry-Forwards (non-capital or net capital)?	No	No	No
6. Since 1999, has the applicant acquired another regulated applicant's assets?	No	No	No
7. Did the applicant pay dividends? *If Yes, please describe the tax treatment in the manager's summary.*	Yes	Yes	Yes
8. Did the applicant elect to capitalize interest incurred on CWIP for tax purposes?	No	No	No

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Tax Rates Federal & Provincial As of MMM XX, 2019	Effective January 1, 2015	Effective January 1, 2016	Effective January 1, 2017	Effective January 1, 2018	Effective January 1, 2019	Effective January 1, 2020
Federal income tax						
General Corporate Rate	38.00%	38.00%	38.00%	38.00%	38.00%	38.00%
Federal Tax Abatement	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%	-10.00%
Adjusted Federal Rate	28.00%	28.00%	28.00%	28.00%	28.00%	28.00%
Rate Reduction	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%	-13.00%
Federal Income Tax	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
Ontario Income Tax	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
Combined Federal and Ontario	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Federal & Ontario Small Business						
Federal Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Ontario Small Business Limit	500,000	500,000	500,000	500,000	500,000	500,000
Federal Small Business Rate	11.00%	10.50%	10.50%	10.00%	9.00%	9.00%
Ontario Small Business Rate	4.50%	4.50%	4.50%	3.50%	3.50%	3.50%

Notes

1. The Ontario Energy Board's proxy for taxable capital is rate base.
2. Regarding the small business deduction, if applicable,
   a. If taxable capital exceeds $15 million, the small business rate will not be applicable.
   b. If taxable capital is below $10 million, the small business rate would be applicable.
   c. If taxable capital is between $10 million and $15 million, the appropriate small business rate will be calculated.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Historical Year

Note: Input the actual information from the tax returns for the historical year.

					Wires Only	
Regulatory Taxable Income				H1	$ 24,184,384	**A**
Combined Tax Rate and PILs	Ontario Tax Rate (Maximum 11.5%)	11.50%	**B**			
	Federal tax rate (Maximum 15%)	15.00%	**C**			
	Combined tax rate (Maximum 26.5%)				26.50%	**D = B+C**
Total Income Taxes					**$ 6,408,862**	**E = A * D**
Investment Tax Credits					$ 85,000	**F**
Miscellaneous Tax Credits					$ -	**G**
Total Tax Credits					**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Historical Year					**$ 6,323,862**	**I = E - H**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Historical Year

	T2S1 line #	Total for Legal Entity	Non-Distribution Eliminations	Historic Wires Only
Income before PILs/Taxes	(A + 101 + 102)	50,779,786		50,779,786
Additions:				
Interest and penalties on taxes	103	5,000		5,000
Amortization of tangible assets	104	59,374,339		59,374,339
Amortization of intangible assets	106	0		0
Recapture of capital cost allowance from Schedule 8	107	0		0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108	0		0
Loss in equity of subsidiaries and affiliates	110	0		0
Loss on disposal of assets	111	1,000,000		1,000,000
Charitable donations and gifts from Schedule 2	112	0		0
Taxable capital gains from Schedule 6	113	0		0
Political contributions	114	0		0
Deferred and prepaid expenses	116	0		0
Scientific research expenditures deducted on financial statements	118	0		0
Capitalized interest	119	0		0
Non-deductible club dues and fees	120	0		0
Non-deductible meals and entertainment expense	121	85,000		85,000
Non-deductible automobile expenses	122	0		0
Non-deductible life insurance premiums	123	0		0
Non-deductible company pension plans	124	0		0
Tax reserves deducted in prior year	125	2,367,712		2,367,712
Reserves from financial statements – balance at the end of the year	126	3,183,844		3,183,844
Soft costs on construction and renovation of buildings	127	0		0
Capital items expensed	206	0		0
Debt issue expense	208	0		0
Development expenses claimed in current year	212	0		0
Financing fees deducted in books	216	0		0
Gain on settlement of debt	220	0		0
Non-deductible advertising	226	0		0
Non-deductible interest	227	0		0
Non-deductible legal and accounting fees	228	0		0
Recapture of SR&ED expenditures	231	0		0
Share issue expense	235	0		0
Write down of capital property	236	0		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237	0		0
Other additions				
Interest Expensed on Capital Leases	295	0		0
Realized Income from Deferred Credit Accounts	295	0		0
Pensions	295	780,000		780,000
Non-deductible penalties	295	0		0
	295	0		0
	295	0		0
ARO Accretion expense		0		0
Capital Contributions Received (ITA 12(1)(x))		0		0
Lease Inducements Received (ITA 12(1)(x))		0		0
Deferred Revenue (ITA 12(1)(a))		0		0
Prior Year Investment Tax Credits received		0		0
Current Year Investment Tax Credits received		85,000		85,000
				0
				0
				0
				0
				0
				0
				0
				0
				0
Total Additions		**66,880,895**	**0**	**66,880,895**
Deductions:				
Gain on disposal of assets per financial statements	401	0		0
Non-taxable dividends under section 83	402	0		0
Capital cost allowance from Schedule 8	403	86,179,564		86,179,564
Terminal loss from Schedule 8	404	0		0
Allowable business investment loss	406	0		0
Deferred and prepaid expenses	409	0		0
Scientific research expenses claimed in year	411	0		0
Tax reserves claimed in current year	413	2,367,712		2,367,712
Reserves from financial statements - balance at beginning of year	414	3,183,844		3,183,844
Contributions to deferred income plans	416	680,000		680,000
Book income of joint venture or partnership	305	0		0
Equity in income from subsidiary or affiliates	306	0		0
Other deductions				
Interest capitalized for accounting deducted for tax	395	0		0
Capital Lease Payments	395	0		0
Non-taxable imputed interest income on deferral and variance accounts	395	0		0
Scientific Research & Experimental Development Expenses	395	1,065,178		1,065,178
	395			0
ARO Payments - Deductible for Tax when Paid		0		0
ITA 13(7.4) Election - Capital Contributions Received		0		0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds		0		0
Deferred Revenue - ITA 20(1)(m) reserve		0		0
Principal portion of lease payments		0		0
Lease Inducement Book Amortization credit to income		0		0
Financing fees for tax ITA 20(1)(e) and (e.1)		0		0
				0
				0
				0
				0
				0
				0
				0
				0
Total Deductions		**93,476,298**	**0**	**93,476,298**
Net Income for Tax Purposes		**24,184,384**	**0**	**24,184,384**
Charitable donations from Schedule 2	311	0		0
Taxable dividends received under section 112 or 113	320	0		0
Non-capital losses of previous tax years from Schedule 4	331	0		0
Net capital losses of previous tax years from Schedule 4	332	0		0
Limited partnership losses of previous tax years from Schedule 4	335	0		0
TAXABLE INCOME		**24,184,384**	**0**	**24,184,384**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Historical

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Net Capital Loss Carry Forward Deduction	Total	Non-Distribution Portion	Utility Balance	
Actual Historical			0	B4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 - Historical Year

Class	Class Description	UCC End of Year Historical per tax returns	Less: Non-Distribution Portion	UCC Regulated Historical Year
1	Buildings, Distribution System (acq'd post 1987)	$ 128,917,465		$ 128,917,465
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	$ 76,683,476		$ 76,683,476
2	Distribution System (acq'd pre 1988)	$ 36,385,516		$ 36,385,516
3	Buildings (acq'd pre 1988)	$ 4,335,934		$ 4,335,934
6	Certain Buildings; Fences	$ -		$ -
8	General Office Equipment, Furniture, Fixtures	$ 10,964,902		$ 10,964,902
10	Motor Vehicles, Fleet	$ 5,701,676		$ 5,701,676
10.1	Certain Automobiles	$ -		$ -
12	Computer Application Software (Non-Systems)	$ -		$ -
13 1	Lease # 1	$ -		$ -
13 2	Lease # 2	$ -		$ -
13 3	Lease # 3	$ -		$ -
13 4	Lease # 4	$ -		$ -
14	Limited Period Patents, Franchises, Concessions or Licences	$ -		$ -
14.1	Eligible Capital Property (acq'd pre 2017)	$ 7,500,207		$ 7,500,207
14.1	Eligible Capital Property (acq'd post 2016)	$ 55,236,941		$ 55,236,941
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	$ 1,384,049		$ 1,384,049
42	Fibre Optic Cable	$ 3,291,979		$ 3,291,979
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	$ 25,132		$ 25,132
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	$ 120		$ 120
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	$ 655,267,574		$ 655,267,574
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	$ 542,321		$ 542,321
95	CWIP	$ -		$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
				$ -
	SUB-TOTAL - UCC	**986,237,295**	**0**	**986,237,295**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Historical

Continuity of Reserves

Description	Historical Balance as per tax returns	Non-Distribution Eliminations	Utility Only	
Capital gains reserves ss.40(1)			0	B13
Tax reserves not deducted for accounting purposes				
Reserve for doubtful accounts ss. 20(1)(l)	2,367,712		2,367,712	B13
Reserve for undelivered goods and services not rendered ss. 20(1)(m)			0	B13
Reserve for unpaid amounts ss. 20(1)(n)			0	B13
Debt & share issue expenses ss. 20(1)(e)			0	B13
Other tax reserves			0	B13
			0	
			0	
			0	
			0	
			0	
Total	**2,367,712**	**0**	**2,367,712**	
Financial Statement Reserves (not deductible for Tax Purposes)				
General reserve for inventory obsolescence (non-specific)			0	B13
General reserve for bad debts	3,183,844		3,183,844	B13
Accrued Employee Future Benefits:			0	B13
- Medical and Life Insurance			0	B13
-Short & Long-term Disability			0	B13
-Accmulated Sick Leave			0	B13
- Termination Cost			0	B13
- Other Post-Employment Benefits			0	B13
Provision for Environmental Costs			0	B13
Restructuring Costs			0	B13
Accrued Contingent Litigation Costs			0	B13
Accrued Self-Insurance Costs			0	B13
Other Contingent Liabilities			0	B13
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)			0	B13
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)			0	B13
Other			0	B13
			0	
			0	
Total	**3,183,844**	**0**	**3,183,844**	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILS Tax Provision - Bridge Year

						Reference	Wires Only	
Regulatory Taxable Income						B1	$ 32,307,659	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate				
Ontario (Max 11.5%)	11.5%	11.5%	########	11.5%	**B**			
Federal (Max 15%)	15.0%	15.0%	########	15.0%	**C**			
Combined effective tax rate (Max 26.5%)							26.50%	**D = B + C**
Total Income Taxes							**$ 8,561,530**	**E = A * D**
Investment Tax Credits							$ 85,000	**F**
Miscellaneous Tax Credits								**G**
Total Tax Credits							**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Bridge Year							**$ 8,476,530**	**I = E - H**

Note:

1. This is for the derivation of Bridge year PILs income tax expense and should not be used for Test year revenue requirement calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Adjusted Taxable Income - Bridge Year

	T2S1 line #	Working Paper Reference	Total for Regulated Utility
Income before PILs/Taxes	**(A + 101 + 102)**		52,353,088
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets	104		60,928,907
Amortization of intangible assets	106		0
Recapture of capital cost allowance from Schedule 8	107	B8	0
Income inclusion under subparagraph 13(38)(d)(iii)	108		0
Income or loss for tax purposes- joint ventures or partnerships	109		0
Loss in equity of subsidiaries and affiliates	110		0
Loss on disposal of assets	111		1,000,000
Charitable donations and gifts from Schedule 2	112		0
Taxable capital gains	113		0
Political contributions	114		0
Deferred and prepaid expenses	116		0
Scientific research expenditures deducted on financial statements	118		0
Capitalized interest	119		0
Non-deductible club dues and fees	120		0
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		0
Non-deductible life insurance premiums	123		0
Non-deductible company pension plans	124		0
Tax reserves deducted in prior year	125	B13	2,367,712
Reserves from financial statements- balance at end of year	126	B13	3,183,844
Soft costs on construction and renovation of buildings	127		0
Capital items expensed	206		0
Debt issue expense	208		0
Development expenses claimed in current year	212		0
Financing fees deducted in books	216		0
Gain on settlement of debt	220		0
Non-deductible advertising	226		0
Non-deductible interest	227		0
Non-deductible legal and accounting fees	228		0
Recapture of SR&ED expenditures	231		0
Share issue expense	235		0
Write down of capital property	236		0
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		0
Other Additions			
Interest Expensed on Capital Leases	295		0
Realized Income from Deferred Credit Accounts	295		0
Pensions	295		780,000
Non-deductible penalties	295		0
	295		0
	295		0
ARO Accretion expense			0
Capital Contributions Received (ITA 12(1)(x))			0
Lease Inducements Received (ITA 12(1)(x))			0
Deferred Revenue (ITA 12(1)(a))			0
Prior Year Investment Tax Credits received			0
Current Year Investment Tax Credits received			85,000
Total Additions			**68,435,463**
Deductions:			
Gain on disposal of assets per financial statements	401		0
Dividends not taxable under section 83	402		0
Capital cost allowance from Schedule 8	403	B8	80,027,985
Terminal loss from Schedule 8	404	B8	0
Allowable business investment loss	406		0
Deferred and prepaid expenses	409		0
Scientific research expenses claimed in year	411		0
Tax reserves claimed in current year	413	B13	2,367,712
Reserves from financial statements - balance at beginning of year	414	B13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		0
Equity in income from subsidiary or affiliates	306		0
Other deductions			0
Interest capitalized for accounting deducted for tax	395		0
Capital Lease Payments	395		0
Non-taxable imputed interest income on deferral and variance accounts	395		0
Scientific Research & Experimental Development Expenses	395		2,221,351
	395		
ARO Payments - Deductible for Tax when Paid			0
ITA 13(7.4) Election - Capital Contributions Received			0
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			0
Deferred Revenue - ITA 20(1)(m) reserve			0
Principal portion of lease payments			0
Lease Inducement Book Amortization credit to income			0
Financing fees for tax ITA 20(1)(e) and (e.1)			0
Total Deductions		calculated	**88,480,892**
Net Income for Tax Purposes		calculated	**32,307,659**
Charitable donations	311		0
Taxable dividends received under section 112 or 113	320		0
Non-capital losses of previous tax years from Schedule 4	331	B4	0
Net capital losses of previous tax years from Schedule 4	332	B4	0
Limited partnership losses of previous tax years from Schedule 4	335		0
TAXABLE INCOME		calculated	**32,307,659**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Corporation Loss Continuity and Application

Schedule 4 Loss Carry Forward - Bridge Year

Non-Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year	B1	0	
Loss Carry Forward Generated in Bridge Year (if any)	B1	0	
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Net Capital Loss Carry Forward Deduction		Total	
Actual Historical	H4	0	
Amount to be used in Bridge Year			
Loss Carry Forward Generated in Bridge Year (if any)	B1		
Other Adjustments			
Balance available for use post Bridge Year	calculated	0	T4

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Bridge Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the bridge year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the bridge year (column 9 minus column 17)	Working Paper Reference
1	Buildings, Distribution System (acq'd post 1987)	HB	$ 128,917,465	$ -	$ -	$ -	$ -	$ -	$ -	$ 128,917,465	$ -	$ -	0.50	$ -	$ -	4%			$ 5,156,699		$ 123,760,767	T8
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	HB	$ 76,683,476	$ 1,283,620	$ 1,283,620	$ -	$ -	$ -	$ -	$ 77,967,096	$ -	$ 1,283,620	0.50	$ 641,810	$ -	6%			$ 4,716,534		$ 73,250,562	T8
2	Distribution System (acq'd pre 1988)	HB	$ 36,385,516			$ -	$ -	$ -	$ -	$ 36,385,516	$ -	$ -		$ -	$ -	6%			$ 2,183,131		$ 34,202,385	T8
3	Buildings (acq'd pre 1988)	HB	$ 4,335,934			$ -	$ -	$ -	$ -	$ 4,335,934	$ -	$ -		$ -	$ -	5%			$ 216,797		$ 4,119,137	T8
6	Certain Buildings; Fences	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -	T8
8	General Office Equipment, Furniture, Fixtures	HB	$ 10,964,902	$ 1,279,222	$ 1,279,222	$ -	$ -	$ -	$ -	$ 12,244,124	$ -	$ 1,279,222	0.50	$ 639,611	$ -	20%			$ 2,576,747		$ 9,667,377	T8
10	Motor Vehicles, Fleet	HB	$ 5,701,676	$ 1,844,412	$ 1,844,412	$ -	$ -	$ -	$ -	$ 7,546,088	$ -	$ 1,844,412	0.50	$ 922,206	$ -	30%			$ 2,540,488		$ 5,005,600	T8
10.1	Certain Automobiles	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	T8
12	Computer Application Software (Non-Systems)	HB	$ -	$ 69,232	$ 69,232	$ -	$ -	$ -	$ -	$ 69,232	$ -	$ 69,232	0.00	$ -	$ -	100%			$ 69,232		$ -	T8
13 $_1$	Lease # 1	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 $_2$	Lease # 2	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 $_3$	Lease # 3	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
13 $_4$	Lease # 4	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
14	Limited Period Patents, Franchises, Concessions or Licences	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -	T8
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	HB	$ 7,500,207			$ -	$ -	$ -	$ -	$ 7,500,207	$ -	$ -		$ -	$ -	7%			$ 525,015		$ 6,975,193	T8
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	HB	$ 55,236,941	$ 2,135,698	$ 2,135,698	$ -	$ -	$ -	$ -	$ 57,372,639	$ -	$ 2,135,698	0.50	$ 1,067,849	$ -	5%			$ 2,922,024		$ 54,450,615	T8
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	HB	$ 1,384,049	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,384,049	$ -	$ -	0.50	$ -	$ -	8%			$ 110,724		$ 1,273,325	T8
42	Fibre Optic Cable	HB	$ 3,291,979	$ 17,278	$ 17,278	$ -	$ -	$ -	$ -	$ 3,309,257	$ -	$ 17,278	0.50	$ 8,639	$ -	12%			$ 398,148		$ 2,911,110	T8
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -	T8
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	HB	$ 25,132	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,132	$ -	$ -	1.00	$ -	$ -	50%			$ 12,566		$ 12,566	T8
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	HB	$ 120			$ -	$ -	$ -	$ -	$ 120	$ -	$ -		$ -	$ -	45%			$ 54		$ 66	T8
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -	T8
47	Distribution System (acq'd post Feb 22/05)	HB	$ 655,267,574	$ 73,617,583	$ 73,617,583	$ -	$ -	$ -	$ -	$ 728,885,157	$ -	$ 73,617,583	0.50	$ 36,808,792	$ -	8%			$ 61,255,516		$ 667,629,641	T8
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	HB	$ 542,321	$ 887,744	$ 887,744	$ -	$ -	$ -	$ -	$ 1,430,065	$ -	$ 887,744	0.50	$ 443,872	$ -	55%			$ 1,030,666		$ 399,400	T8
95	CWIP	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -	T8
	2024 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal C	HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -				-$ 3,686,355		$ 3,686,355	T8
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
		HB	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -						$ -	T8
	TOTALS		$ 986,237,295	$ 81,134,789	$ 81,134,789	$ -	$ -	$ -	$ -	$ 1,067,372,084	$ -	$ 81,134,789		$ 40,532,779	$ -		$ -	$ -	$ 80,027,985	B1	$ 987,344,099	

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Bridge Year

Continuity of Reserves

Description	Reference	Historical Utility Only	Eliminate Amounts Not Relevant for Bridge Year	Adjusted Utility Balance		Bridge Year Adjustments: Additions	Bridge Year Adjustments: Disposals	Balance for Bridge Year		Change During the Year	Disallowed Expenses
Capital gains reserves ss.40(1)	H13	0		0				0	T13	0	
Tax Reserves Not Deducted for Accounting Purposes											
Reserve for doubtful accounts ss. 20(1)(l)	H13	2,367,712		2,367,712				2,367,712	T13	0	
Reserve for goods and services not delivered ss. 20(1)(m)	H13	0		0				0	T13	0	
Reserve for unpaid amounts ss. 20(1)(n)	H13	0		0				0	T13	0	
Debt & share issue expenses ss. 20(1)(e)	H13	0		0				0	T13	0	
Other tax reserves	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	B1	**0**	**0**	**2,367,712**	B1	**0**	**0**
Financial statement reserves (not deductible for tax purposes)											
General Reserve for Inventory Obsolescence (non-specific)	H13	0		0				0	T13	0	
General Reserve for Bad Debts	H13	3,183,844		3,183,844				3,183,844	T13	0	
Accrued Employee Future Benefits:	H13	0		0				0	T13	0	
- Medical and Life Insurance	H13	0		0				0	T13	0	
- Short & Long-term Disability	H13	0		0				0	T13	0	
- Accumulated Sick Leave	H13	0		0				0	T13	0	
- Termination Cost	H13	0		0				0	T13	0	
- Other Post-Employment Benefits	H13	0		0				0	T13	0	
Provision for Environmental Costs	H13	0		0				0	T13	0	
Restructuring Costs	H13	0		0				0	T13	0	
Accrued Contingent Litigation Costs	H13	0		0				0	T13	0	
Accrued Self-Insurance Costs	H13	0		0				0	T13	0	
Other Contingent Liabilities	H13	0		0				0	T13	0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	H13	0		0				0	T13	0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	H13	0		0				0	T13	0	
Other	H13	0		0				0	T13	0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	B1	**0**	**0**	**3,183,844**	B1	**0**	**0**

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

PILs Tax Provision - Test Year

						Wires Only	
Regulatory Taxable Income					T1	$ 21,371,835	**A**
	Tax Rate	Small Business Rate (If Applicable)	Taxes Payable	Effective Tax Rate			
Ontario (Max 11.5%)	11.5%	11.5%	$ 2,457,761	11.5%	**B**		
Federal (Max 15%)	15.0%	15.0%	$ 3,205,775	15.0%	**C**		
Combined effective tax rate (Max 26.5%)						26.50%	**D = B + C**
Total Income Taxes						**$ 5,663,536**	**E = A * D**
Investment Tax Credits						$ 85,000	**F**
Miscellaneous Tax Credits							**G**
Total Tax Credits						**$ 85,000**	**H = F + G**
Corporate PILs/Income Tax Provision for Test Year						**$ 5,578,536**	**I = E - H** S. Summary
Corporate PILs/Income Tax Provision Gross Up [1]					73.50% **J = 1-D**	**$ 2,011,309**	**K = I/J-I**
Income Tax (grossed-up)						**$ 7,589,845**	**L = K + I** S. Summary

Note:

1. This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Taxable Income - Test Year

		Working Paper Reference	Test Year Taxable Income
Net Income Before Taxes		A	54,261,496
	T2 S1 line #		
Additions:			
Interest and penalties on taxes	103		5,000
Amortization of tangible assets *2-4 ADJUSTED ACCOUNTING DATA P489*	104		64,253,232
Amortization of intangible assets *2-4 ADJUSTED ACCOUNTING DATA P490*	106		
Recapture of capital cost allowance from Schedule 8	107	T8	0
Income inclusion under subparagraph 13(38)(d)(iii) from Schedule 10	108		
Loss in equity of subsidiaries and affiliates	110		
Loss on disposal of assets	111		1,000,000
Charitable donations	112		
Taxable Capital Gains	113		
Political Donations	114		
Deferred and prepaid expenses	116		
Scientific research expenditures deducted on financial statements	118		
Capitalized interest	119		
Non-deductible club dues and fees	120		
Non-deductible meals and entertainment expense	121		85,000
Non-deductible automobile expenses	122		
Non-deductible life insurance premiums	123		
Non-deductible company pension plans	124		
Tax reserves beginning of year	125	T13	2,367,712
Reserves from financial statements- balance at end of year	126	T13	3,183,844
Soft costs on construction and renovation of buildings	127		
Book loss on joint ventures or partnerships	205		
Capital items expensed	206		
Debt issue expense	208		
Development expenses claimed in current year	212		
Financing fees deducted in books	216		
Gain on settlement of debt	220		
Non-deductible advertising	226		
Non-deductible interest	227		
Non-deductible legal and accounting fees	228		
Recapture of SR&ED expenditures	231		
Share issue expense	235		
Write down of capital property	236		
Amounts received in respect of qualifying environment trust per paragraphs 12(1)(z.1) and 12(1)(z.2)	237		
Other Additions			
Interest Expensed on Capital Leases	295		
Realized Income from Deferred Credit Accounts	295		
Pensions	295		780,000
Non-deductible penalties	295		
	295		
	295		
	295		
	295		
ARO Accretion expense			
Capital Contributions Received (ITA 12(1)(x))			
Lease Inducements Received (ITA 12(1)(x))			
Deferred Revenue (ITA 12(1)(a))			
Prior Year Investment Tax Credits received			
Current Year Investment Tax Credits received			85,000
Total Additions			**71,759,788**
Deductions:			
Gain on disposal of assets per financial statements	401		
Dividends not taxable under section 83	402		
Capital cost allowance from Schedule 8	403	T8	95,761,207
Terminal loss from Schedule 8	404	T8	0
Allowable business investment loss	406		
Deferred and prepaid expenses	409		
Scientific research expenses claimed in year	411		
Tax reserves end of year	413	T13	2,367,712
Reserves from financial statements - balance at beginning of year	414	T13	3,183,844
Contributions to deferred income plans	416		680,000
Book income of joint venture or partnership	305		
Equity in income from subsidiary or affiliates	306		
Other deductions			
Interest capitalized for accounting deducted for tax	395		
Capital Lease Payments	395		
Non-taxable imputed interest income on deferral and variance accounts	395		
Scientific Research & Experimental Development Expenses	395		2,656,686
	395		
	395		
	395		
	395		
ARO Payments - Deductible for Tax when Paid			
ITA 13(7.4) Election - Capital Contributions Received			
ITA 13(7.4) Election - Apply Lease Inducement to cost of Leaseholds			
Deferred Revenue - ITA 20(1)(m) reserve			
Principal portion of lease payments			
Lease Inducement Book Amortization credit to income			
Financing fees for tax ITA 20(1)(e) and (e.1)			
Total Deductions		calculated	**104,649,449**
NET INCOME FOR TAX PURPOSES		calculated	**21,371,835**
Charitable donations	311		
Taxable dividends received under section 112 or 113	320		
Non-capital losses of previous tax years from Schedule 4	331	T4	0
Net capital losses of previous tax years from Schedule 4	332	T4	0
Limited partnership losses of previous tax years from Schedule 4	335		
REGULATORY TAXABLE INCOME		calculated	**21,371,835**

T0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 4 Loss Carry Forward - Test Year

Corporation Loss Continuity and Application

Non-Capital Loss Carry Forward Deduction	Working Paper Reference	Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years	T1	0		0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	calculated	0		0
Loss Carry Forward Generated in Test Year (if any)	T1	0		0
Other Adjustments				0
Balance available for use in Future Years	calculated	0		0

Net Capital Loss Carry Forward Deduction		Total	Non-Distribution Portion	Utility Balance
Actual/Estimated Bridge Year Carried Forward	B4	0		0
Amount to be used in Test Year and Price Cap Years				0
Number of years loss until next cost of service (i.e. years the loss is to be spread over)				
Amount to be used in Test Year	T1	0		0
Loss Carry Forward Generated in Test Year (if any)				0
Other Adjustments				0
Balance available for use in Future Years		0		0

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 8 CCA - Test Year

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	BB	$ 123,760,767							$ 123,760,767	$ -	$ -	0.50	$ -	$ -	4%			$ 4,950,431		$ 118,810,336
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	BB	$ 73,250,562	1,768,725	1,768,725					$ 75,019,287	$ -	$ 1,768,725	0.50	$ 884,363	$ -	6%			$ 4,554,219		$ 70,465,068
2	Distribution System (acq'd pre 1988)	BB	$ 34,202,385							$ 34,202,385	$ -	$ -		$ -	$ -	6%			$ 2,052,143		$ 32,150,242
3	Buildings (acq'd pre 1988)	BB	$ 4,119,137							$ 4,119,137	$ -	$ -		$ -	$ -	5%			$ 205,957		$ 3,913,180
6	Certain Buildings; Fences	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	10%			$ -		$ -
8	General Office Equipment, Furniture, Fixtures	BB	$ 9,667,377	2,703,557	2,703,557					$ 12,370,934	$ -	$ 2,703,557	0.50	$ 1,351,779	$ -	20%			$ 2,744,542		$ 9,626,391
10	Motor Vehicles, Fleet	BB	$ 5,005,600	467,753	467,753					$ 5,473,353	$ -	$ 467,753	0.50	$ 233,877	$ -	30%			$ 1,712,169		$ 3,761,184
10.1	Certain Automobiles	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
12	Computer Application Software (Non-Systems)	BB	$ -	13,594,320	13,594,320					$ 13,594,320	$ -	$ 13,594,320	0.00	$ -	$ -	100%			$ 13,594,320		$ -
13 $_1$	Lease # 1	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_2$	Lease # 2	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_3$	Lease # 3	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 $_4$	Lease # 4	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14	Limited Period Patents, Franchises, Concessions or Licences	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	BB	$ 6,975,193							$ 6,975,193	$ -	$ -		$ -	$ -	7%			$ 488,263		$ 6,486,929
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	BB	$ 54,450,815	7,305,683	7,305,683					$ 61,756,298	$ -	$ 7,305,683	0.50	$ 3,652,842	$ -	5%			$ 3,270,457		$ 58,485,841
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	BB	$ 1,273,325							$ 1,273,325	$ -	$ -	0.50	$ -	$ -	8%			$ 101,866		$ 1,171,459
42	Fibre Optic Cable	BB	$ 2,911,110	39,097	39,097					$ 2,950,207	$ -	$ 39,097	0.50	$ 19,549	$ -	12%			$ 356,371		$ 2,593,836
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ -							$ -	$ -	$ -	2.33	$ -	$ -	30%			$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	BB	$ 12,566							$ 12,566	$ -	$ -	1.00	$ -	$ -	50%			$ 6,283		$ 6,283
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	BB	$ 66							$ 66	$ -	$ -		$ -	$ -	45%			$ 30		$ 36
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	BB	$ -							$ -	$ -	$ -	0.50	$ -	$ -	30%			$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	BB	$ 667,629,641	91,545,854	91,545,854					$ 759,175,495	$ -	$ 91,545,854	0.50	$ 45,772,927	$ -	8%			$ 64,395,874		$ 694,779,622
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	BB	$ 399,400	1,573,599	1,573,599					$ 1,972,999	$ -	$ 1,573,599	0.50	$ 786,800	$ -	55%			$ 1,517,889		$ 455,110
95	CWIP	BB	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -
	2024 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal CCA)	BB	$ 3,686,355							$ 3,686,355	$ -	$ -		$ -	$ -						$ 3,686,355
	2025 Adjust for accelerated CCA rule (starting 2024 maximum up to 2 times normal CCA)	BB	$ -							$ -	$ -	$ -		$ -	$ -				-$ 4,189,607		$ 4,189,607
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BB	$ -							$ -	$ -	$ -		$ -	$ -						$ -
	TOTALS		$ 987,344,099	$ 118,998,588	$ 118,998,588	$ -	$ -	$ -	$ -	$ 1,106,342,687	$ -	$ 118,998,588		$ 52,702,134	$ -		$ -	$ -	$ 95,761,207	T1	$ 1,010,581,480

Ontario Energy Board

Income Tax/PILs Workform for 2020 Filers

Schedule 13 Tax Reserves - Test Year

Continuity of Reserves

Description	Working Paper Reference	Bridge Year	Eliminate Amounts Not Relevant for Test Year	Adjusted Utility Balance		Test Year Adjustments: Additions	Test Year Adjustments: Disposals	Balance for Test Year		Change During the Year	Disallowed Expenses
Capital Gains Reserves ss.40(1)	B13	0		0				0		0	
Tax Reserves Not Deducted for accounting purposes											
Reserve for doubtful accounts ss. 20(1)(l)	B13	2,367,712		2,367,712				2,367,712		0	
Reserve for goods and services not delivered ss. 20(1)(m)	B13	0		0				0		0	
Reserve for unpaid amounts ss. 20(1)(n)	B13	0		0				0		0	
Debt & Share Issue Expenses ss. 20(1)(e)	B13	0		0				0		0	
Other tax reserves	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**2,367,712**	**0**	**2,367,712**	T1	**0**	**0**	**2,367,712**	T1	**0**	**0**
Financial Statement Reserves (not deductible for Tax Purposes)											
General Reserve for Inventory Obsolescence (non-specific)	B13	0		0				0		0	
General reserve for bad debts	B13	3,183,844		3,183,844				3,183,844		0	
Accrued Employee Future Benefits:	B13	0		0				0		0	
- Medical and Life Insurance	B13	0		0				0		0	
-Short & Long-term Disability	B13	0		0				0		0	
-Accmulated Sick Leave	B13	0		0				0		0	
- Termination Cost	B13	0		0				0		0	
- Other Post-Employment Benefits	B13	0		0				0		0	
Provision for Environmental Costs	B13	0		0				0		0	
Restructuring Costs	B13	0		0				0		0	
Accrued Contingent Litigation Costs	B13	0		0				0		0	
Accrued Self-Insurance Costs	B13	0		0				0		0	
Other Contingent Liabilities	B13	0		0				0		0	
Bonuses Accrued and Not Paid Within 180 Days of Year-End ss. 78(4)	B13	0		0				0		0	
Unpaid Amounts to Related Person and Not Paid Within 3 Taxation Years ss. 78(1)	B13	0		0				0		0	
Other	B13	0		0				0		0	
		0		0				0		0	
		0		0				0		0	
Total		**3,183,844**	**0**	**3,183,844**	T1	**0**	**0**	**3,183,844**	T1	**0**	**0**

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor (after 2023 no more 1.5 times, but half year rule still suspended)	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	BR	$ 128,917,465.00							$ 128,917,465	$ -	$ -	0.00	$ -	$ -	4%			$ 5,156,699		$ 123,760,766
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	BR	$ 76,683,476.00	1,283,620	1,283,620					$ 77,967,096	$ -	$ 1,283,620	0.00	$ -	$ -	6%			$ 4,678,026		$ 73,289,070
2	Distribution System (acq'd pre 1988)	BR	$ 36,385,516.00							$ 36,385,516	$ -	$ -	0.00	$ -	$ -	6%			$ 2,183,131		$ 34,202,385
3	Buildings (acq'd pre 1988)	BR	$ 4,335,934.00							$ 4,335,934	$ -	$ -	0.00	$ -	$ -	5%			$ 216,797		$ 4,119,137
6	Certain Buildings; Fences	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	10%			$ -		$ -
8	General Office Equipment, Furniture, Fixtures	BR	$ 10,964,902.00	1,279,222	1,279,222					$ 12,244,124	$ -	$ 1,279,222	0.00	$ -	$ -	20%			$ 2,448,825		$ 9,795,299
10	Motor Vehicles, Fleet	BR	$ 5,701,676.00	1,844,412	1,844,412					$ 7,546,088	$ -	$ 1,844,412	0.00	$ -	$ -	30%			$ 2,263,826		$ 5,282,262
10.1	Certain Automobiles	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	30%			$ -		$ -
12	Computer Application Software (Non-Systems)	BR	$ -	69,232	69,232					$ 69,232	$ -	$ 69,232	0.00	$ -	$ -	100%			$ 69,232		$ -
13 1	Lease # 1	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 2	Lease # 2	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 3	Lease # 3	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 4	Lease # 4	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14	Limited Period Patents, Franchises, Concessions or Licences	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	BR	$ 7,500,207.00							$ 7,500,207	$ -	$ -	0.00	$ -	$ -	7%			$ 525,014		$ 6,975,193
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	BR	$ 55,236,941.00	2,135,698	2,135,698					$ 57,372,639	$ -	$ 2,135,698	0.00	$ -	$ -	5%			$ 2,868,632		$ 54,504,007
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	BR	$ 1,384,049.00							$ 1,384,049	$ -	$ -	0.00	$ -	$ -	8%			$ 110,724		$ 1,273,325
42	Fibre Optic Cable	BR	$ 3,291,980.00	17,278	17,278					$ 3,309,258	$ -	$ 17,278	0.00	$ -	$ -	12%			$ 397,111		$ 2,912,147
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	30%			$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	BR	$ 25,132							$ 25,132	$ -	$ -	0.00	$ -	$ -	50%			$ 12,566		$ 12,566
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	BR	$ 120.00							$ 120	$ -	$ -	0.00	$ -	$ -	45%			$ 54		$ 66
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	30%			$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	BR	$ 655,267,574	73,617,583	73,617,583					$ 728,885,157	$ -	$ 73,617,583	0.00	$ -	$ -	8%			$ 58,310,813		$ 670,574,344
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	BR	$ 542,321.00	887,744	887,744					$ 1,430,065	$ -	$ 887,744	0.00	$ -	$ -	55%			$ 786,536		$ 643,529
95	CWIP	BR	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -
		BR	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BR	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BR	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BR	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BR	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BR	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		BR	$ -							$ -	$ -	$ -		$ -	$ -						$ -
	TOTALS		$ 986,237,293	$ 81,134,789	$ 81,134,789	$ -	$ -	$ -	$ -	$ 1,067,372,082	$ -	$ 81,134,789		$ -	$ -		$ -	$ -	$ 80,027,985	T1	$ 987,344,097

Hydro Ottawa Limited
December 31, 2025

(1) Class	Class Description	Working Paper Reference	(2) Undepreciated capital cost (UCC) at the beginning of the test year	(3) Cost of acquisitions during the year (new property must be available for use, except CWIP)	(4) Cost of acquisitions from column 3 that are accelerated investment incentive property (AIIP)	(5) Adjustments and transfers (enter amounts that will reduce the UCC as negatives)	(6) Amount from column 5 that is assistance received or receivable during the year for a property, subsequent to its disposition	(7) Amount from column 5 that is repaid during the year for a property, subsequent to its disposition	(8) Proceeds of dispositions	(9) UCC (column 2 plus column 3 plus or minus column 5 minus column 8)	(10) Proceeds of disposition available to reduce the UCC of AIIP (column 8 plus column 6 minus column 3 plus column 4 minus column 7) (if negative, enter "0")	(11) Net capital cost additions of AIIP acquired during the year (column 4 minus column 10) (if negative, enter "0")	Relevant factor (after 2023 no more 1.5 times, but half year rule still suspended)	(12) UCC adjustment for AIIP acquired during the year (column 11 multiplied by the relevant factor)	(13) UCC adjustment for non-AIIP acquired during the year (0.5 multiplied by the result of column 3 minus column 4 minus column 6 plus column 7 minus column 8) (if negative, enter "0")	(14) CCA Rate %	(15) Recapture of CCA	(16) Terminal Loss	(17) CCA (for declining balance method, the result of column 9 plus column 12 minus column 13, multiplied by column 14)		(18) UCC at the end of the test year (column 9 minus column 17)
1	Buildings, Distribution System (acq'd post 1987)	B8	$ 123,760,766							$ 123,760,766	$ -	$ -	0.00	$ -	$ -	4%			$ 4,950,431		$ 118,810,336
1b	Non-Residential Buildings [Reg. 1100(1)(a.1) election]	B8	$ 73,289,070	1,768,725	1,768,725					$ 75,057,795	$ -	$ 1,768,725	0.00	$ -	$ -	6%			$ 4,503,468		$ 70,554,328
2	Distribution System (acq'd pre 1988)	B8	$ 34,202,385							$ 34,202,385	$ -	$ -	0.00	$ -	$ -	6%			$ 2,052,143		$ 32,150,242
3	Buildings (acq'd pre 1988)	B8	$ 4,119,137							$ 4,119,137	$ -	$ -	0.00	$ -	$ -	5%			$ 205,957		$ 3,913,180
6	Certain Buildings; Fences	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	10%			$ -		$ -
8	General Office Equipment, Furniture, Fixtures	B8	$ 9,795,299	2,703,557	2,703,557					$ 12,498,856	$ -	$ 2,703,557	0.00	$ -	$ -	20%			$ 2,499,771		$ 9,999,085
10	Motor Vehicles, Fleet	B8	$ 5,282,262	467,753	467,753					$ 5,750,015	$ -	$ 467,753	0.00	$ -	$ -	30%			$ 1,725,004		$ 4,025,010
10.1	Certain Automobiles	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	30%			$ -		$ -
12	Computer Application Software (Non-Systems)	B8	$ -	13,594,320	13,594,320					$ 13,594,320	$ -	$ 13,594,320	0.00	$ -	$ -	100%			$ 13,594,320		$ -
13 1	Lease # 1	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 2	Lease # 2	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 3	Lease # 3	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
13 4	Lease # 4	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14	Limited Period Patents, Franchises, Concessions or Licences	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	NA					$ -
14.1	Eligible Capital Property (acq'd pre Jan 1, 2017)	B8	$ 6,975,193							$ 6,975,193	$ -	$ -	0.00	$ -	$ -	7%			$ 488,263		$ 6,486,929
14.1	Eligible Capital Property (acq'd post Jan 1, 2017)	B8	$ 54,504,007	7,305,683	7,305,683					$ 61,809,690	$ -	$ 7,305,683	0.00	$ -	$ -	5%			$ 3,090,485		$ 58,719,206
17	Elec. Generation Equip. (Non-Bldng, acq'd post Feb 27/00); Roads, Lots, Storage	B8	$ 1,273,325							$ 1,273,325	$ -	$ -	0.00	$ -	$ -	8%			$ 101,866		$ 1,171,459
42	Fibre Optic Cable	B8	$ 2,912,147	39,097	39,097					$ 2,951,244	$ -	$ 39,097	0.00	$ -	$ -	12%			$ 354,149		$ 2,597,095
43.1	Certain Clean Energy/Energy-Efficient Generation Equipment	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	30%			$ -		$ -
43.2	Certain Clean Energy/Energy-Efficient Generation Equipment	B8	$ 12,566							$ 12,566	$ -	$ -	0.00	$ -	$ -	50%			$ 6,283		$ 6,283
45	Computers & System Software (acq'd post Mar 22/04 and pre Mar 19/07)	B8	$ 66							$ 66	$ -	$ -	0.00	$ -	$ -	45%			$ 30		$ 36
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	30%			$ -		$ -
47	Distribution System (acq'd post Feb 22/05)	B8	$ 670,574,344	91,545,854	91,545,854					$ 762,120,198	$ -	$ 91,545,854	0.00	$ -	$ -	8%			$ 60,969,616		$ 701,150,583
50	General Purpose Computer Hardware & Software (acq'd post Mar 18/07)	B8	$ 643,529	1,573,599	1,573,599					$ 2,217,128	$ -	$ 1,573,599	0.00	$ -	$ -	55%			$ 1,219,421		$ 997,708
95	CWIP	B8	$ -							$ -	$ -	$ -	0.00	$ -	$ -	0%			$ -		$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
		B8	$ -							$ -	$ -	$ -		$ -	$ -						$ -
	TOTALS		$ 987,344,097	$ 118,998,588	$ 118,998,588	$ -	$ -	$ -	$ -	$ 1,106,342,685	$ -	$ 118,998,588		$ -	$ -		$ -	$ -	$ 95,761,206	T1	$ 1,010,581,479

UPDATED LOST REVENUE ADJUSTMENT MECHANISM

1. INTRODUCTION

On March 31, 2010, the Ministry of Energy and Infrastructure issued a directive ("2010 Directive") to the OEB to take steps in order to establish Conservation and Demand Management ("CDM") targets to be met by licenced electricity distributors over a four-year period beginning January 1, 2011.[1]

In response to the 2010 Directive, the OEB established the *Conservation and Demand Management Code for Electricity Distributors* ("CDM Code") in September 2010. In addition, in April 2012 the OEB issued a set of *Guidelines for Electricity Distributor Conservation and Demand Management* ("2012 CDM Guidelines") which articulated more specific guidance on the obligations and requirements in relation to CDM targets with which distributors were mandated to comply, as stipulated in their licences.[2] Of note, the 2012 CDM Guidelines provided updated details on the Lost Revenue Adjustment Mechanism ("LRAM") which was set-up to compensate distributors for lost revenues resulting from CDM programs for the 2011-2014 period. The CDM Code and 2012 CDM Guidelines were applicable for all activities related to the 2011-2014 CDM Framework.

Under the 2011-2014 CDM Framework, results were predominantly achieved through the delivery of provincially-developed programs that were funded by the Ontario Power Authority ("OPA") in cooperation with electricity distributors.[3] The 2011-2014 framework terminated on December 31, 2014.

[1] Ministry of Energy and Infrastructure, *Directive* EB-2010-0216 (March 31, 2010).
[2] Ontario Energy Board, *Guidelines for Electricity Distributor Conservation and Demand Management*, EB-2012-0003, (April 26, 2012).
[3] References to the OPA remain for activities occurring prior to January 1, 2015. As of January 1, 2015, the functions of the OPA were transferred to the Independent Electricity System Operator through a merger of the two organizations.

In 2013, the Government of Ontario released an updated Long-Term Energy Plan ("LTEP").[4] A key priority in the 2013 LTEP was reinforcement of the principle of "conservation first" in the electricity sector's planning processes. In conjunction with the implementation of the 2013 LTEP, the Ministry of Energy established a new Conservation First Framework ("CFF"). The CFF was structured around the goal of achieving 7 TWh of electricity savings province-wide from 2015-2020, with programs funded by the Independent Electricity System Operator ("IESO") and delivered by electricity distributors. In turn, the OEB received a directive from the Minister of Energy on March 31, 2014 that required the OEB to promote CDM and establish guidelines for CDM program implementation by electricity distributors. These new CDM guidelines were effective as of January 1, 2015, as part of the launch of the CFF framework.

On March 20, 2019, the Minister of Energy, Northern Development and Mines issued a directive to the IESO mandating the discontinuance of the CFF and the establishment of an Interim Framework for CDM programming. Under the Interim Framework, the new province-wide target for CDM savings is 1.4 TWh, with this framework scheduled to expire on December 31, 2020.

Subsequent to the discontinuance of the 2015-2020 CFF framework, the OEB issued a letter to distributors on June 20, 2019 stating that distributors should continue to have access to LRAM related to the successful delivery of CFF programs.[5] In addition, the OEB issued an addendum to both the *Chapter 2* and *Chapter 3 Filing Requirements for Electricity Distribution Rate Applications*, in order to make modifications reflecting the new requirements set forth in the Interim Framework.[6]

For additional information on the termination of the CFF and the establishment and implementation of the Interim Framework, please see Exhibit 4-1-6: Conservation and Demand Management.

[4] Ministry of Energy, *Achieving Balance - Ontario's Long-Term Energy Plan* (December 2013).
[5] Ontario Energy Board, Letter re: *Lost Revenue Adjustment Mechanism for 2020 Rate Applications* (June 20, 2019).
[6] https://www.oeb.ca/sites/default/files/Addendum-to-Filing-Requirements-20190715.pdf.

The IESO has made monthly Participation and Cost Reports available to electricity distributors from January 1, 2018 to March 31, 2019. These reports include incremental first year energy savings as well as information related to persistence. The OEB has directed that the results from the IESO's 2017 program evaluation should be applied to the January 1, 2018 to March 31, 2019 gross unverified savings values, including net-to-gross factors and gross realization rates.[7] To calculate net savings values at the project level, distributors are instructed to rely on results from the IESO's 2017 program evaluation.

2. LOST REVENUE ADJUSTMENT MECHANISM VARIANCE ACCOUNT

The CDM Guidelines issued in 2012 authorized the establishment of an LRAM variance account ("LRAMVA") Uniform System of Accounts ("USofA") 1568 for the 2011-2014 CDM period to capture, at the customer rate-class, the difference between the following:

- The results of the actual verified impacts of authorized CDM activities undertaken by the electricity distributor for OEB-approved CDM programs and/or OPA-Contracted Province-Wide CDM programs in relation to activities undertaken by the distributor and/or delivered for the distributor by a third party under contract (in the distributor's franchise area);

  AND

- The level of CDM program activities included in the distributor's load forecast (i.e. the level embedded into rates).[8]

Account 1568 has also been approved for use for LRAM variances related to the 2015-2020 CFF framework.

[7] Ontario Energy Board, *Addendum to Filing Requirements for Electricity Distribution Rate Applications - 2020 Rate Applications* (July 15, 2019), pages 6-7.
[8] Ontario Energy Board, *Guidelines for Electricity Distributor Conservation and Demand Management*, EB-2012-0003, (April 26, 2012), Appendix B, pages 13 and 21.

Hydro Ottawa will follow section 2.4.6.2 of the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019, which states that electricity distributors must apply for the clearance of energy-related and/or demand-related LRAMVA balances attributable to approved energy efficiency programs in a Cost of Service ("COS") year. As per this Application, this year is 2021 for Hydro Ottawa's purposes.

Moreover, according to an additional set of CDM guidelines issued by the OEB in 2014, "[d]istributors should continue to rely on the LRAMVA to track and dispose lost revenues that result from approved CDM programs between 2015-2020."[9] At the time of filing this Application, Hydro Ottawa can support the 2014 LRAM claims. Hydro Ottawa will provide LRAM claims for years after 2014 as part of subsequent updates to this Application. Please refer to Exhibit 4-5-2: LRAM Variance Account for details on the disposition of LRAMVA being proposed.

Hydro Ottawa has appended the 2014-2017 annual IESO Final Verified Reports to this Schedule, as follows:

- Attachment 4-5-1(A): IESO Final Verified 2014 CDM Report
- Attachment 4-5-1(B): IESO Final Verified 2015 CDM Summary Report
- Attachment 4-5-1(C): IESO Final Verified 2016 CDM Summary Report
- Attachment 4-5-1(D): IESO Final Verified 2017 CDM Summary Report

In conjunction with the updates being made to this Application, Hydro Ottawa has appended the following Attachment to this Schedule:

- Attachment 4-5-1(E): 2018 IESO Program Participation and Cost Report

[9] Ontario Energy Board, *Conservation and Demand Management Requirement Guidelines for Electricity Distributors*, EB-2014-0278 (December 19, 2014; updated August 11, 2016), page 11.

As per the aforementioned addendum to the OEB's filing requirements, Hydro Ottawa will rely on the IESO's monthly Participation and Cost Reports from January 1, 2018 to March 31, 2019 for LRAM calculations after 2017.

Program Participation & Cost Report

Message from the IESO Reporting Team

The IESO is pleased to provide LDCs with the Monthly Program Participation & Cost Report.

This report is generally posted on the IESO LDC Extranet by the Friday of the week following the 15th of each month. The report provides province-wide and LDC specific program participation and costs to the extent known based on information received by the IESO from all distribution companies and IESO Value Added Service Provider.

The Monthly Program Participation & Cost Report includes preliminary, unverified results based on information received by the IESO. Upon verification of project information through the IESO Evaluation, Measurement and Verification (EM&V) process, results will be reported as 'verified'. Performance against CDM Plan information is also available in this report and is based on the LDC's approved CDM Plan as at the end of the reporting period. Where two or more LDCs have submitted a joint CDM Plan, the IESO will provide a Monthly Program Participation & Cost Report for each LDC included in the CDM Plan.

The IESO strives to improve on the current reporting processes to provide meaningful and timely information to LDCs. Your feedback is encouraged and appreciated. Should you have any feedback, questions or comments on this report please contact us at LDC.Support@ieso.ca.

Program Participation & Cost Report
Summary

		CDM Plan	vs	Allocated	Paid Pre-Funding
Hydro Ottawa Limited	**CFF Target (kWh):**	395,036,000		394,539,159	
As of: 15-Feb-19	**CFF Budget:**	$105,238,136		$105,242,155	$4,447,050

Summary of Performance Metrics

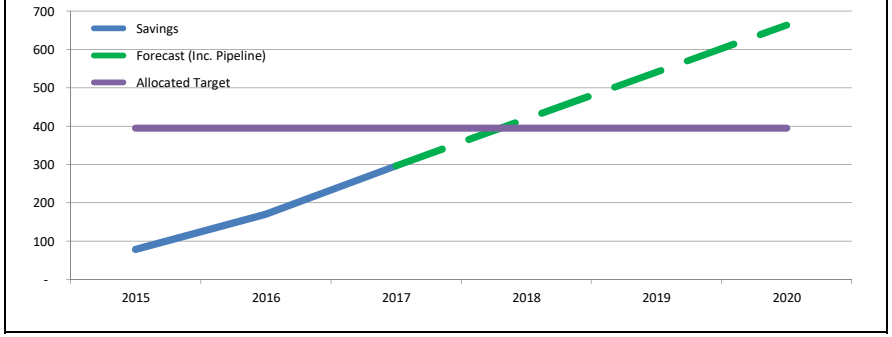
	2019 CDM Results	2019 CDM Plan %	6-year CDM Results	6-year CDM Plan %	6-year Allocated %
Net Energy Savings (kWh) as at 2020	6,322	0%	332,068,340	84.1%	84.2%
Total Actual Spending ($)	$ 1,402,316	6%	$ 59,859,537	56.9%	56.9%
Cost-effectiveness: Total Resource Cost Test (Ratio)	1.28		1.26		
Cost-effectiveness: Program Administrator Cost Test (Ratio)	3.73		2.96		
Cost-effectiveness: Levelized Unit Electricity Cost ($/kWh)	0.02		0.02		

LDC Ranking in the Province out of 67

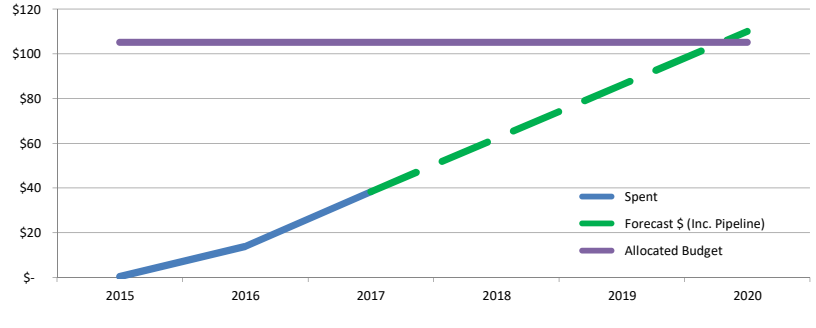
	Total % of 6-year Allocated Budget Spent	Total % of 6-year Allocated Target
This Month:	**15**	**28**
Last Month:	**15**	**27**

MTI Calculated Payout:	**$**	**4,141,305**	
2015-17 kWh & MTI Rate:		**276,086,993**	**0.15 cents/kWh**
Paid MTI Amount:	**$**	**4,141,305**	

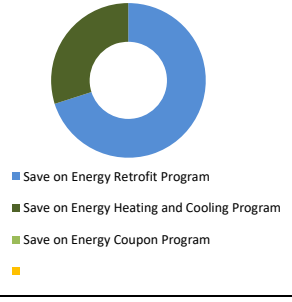
Forecasted Savings (GWh)



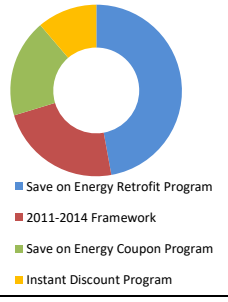
Forecasted Spending (Millions)



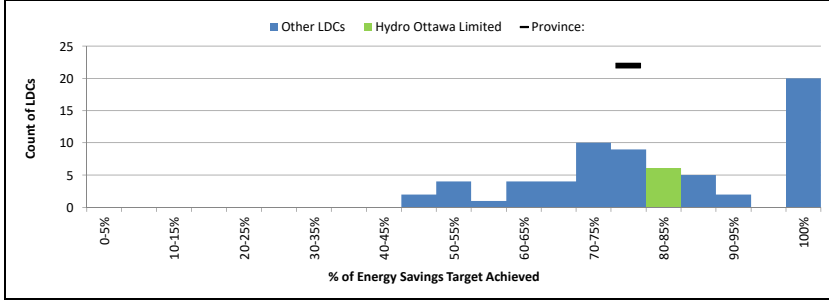
2019 % Contribution by Program



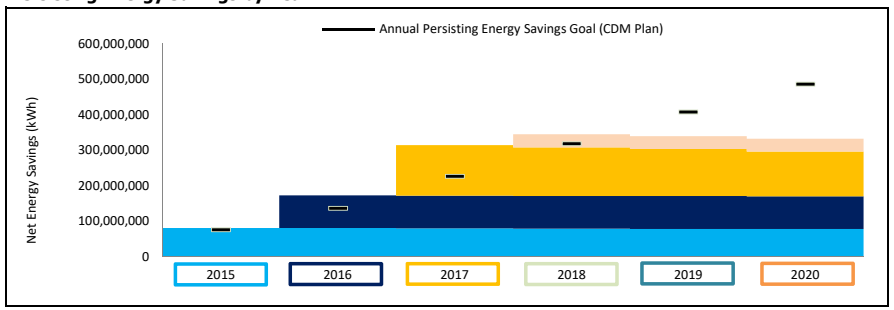
Framework to Date Contribution by Program



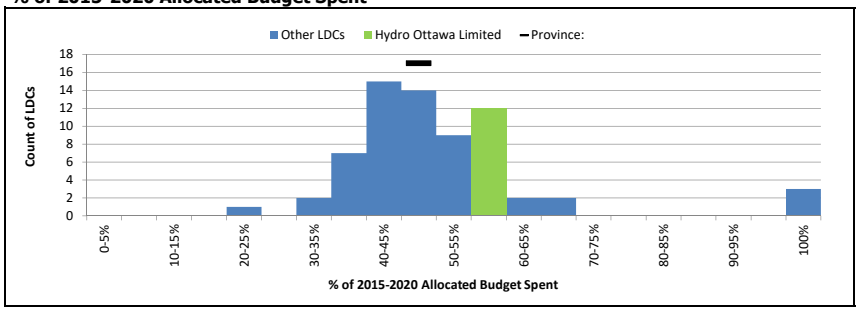
% of 2015-2020 Allocated Energy Savings Target Achieved



Persisting Energy Savings by Year



% of 2015-2020 Allocated Budget Spent



UPDATED LRAM VARIANCE ACCOUNT

1. INTRODUCTION

As part of the updates to this Application for 2019 actuals, Hydro Ottawa is seeking Lost Revenue Adjustment Mechanism ("LRAM") recovery in the amount of ($2,733,351), including principal of ($2,506,838) and carrying charges of ($226,513). As originally submitted, Hydro Ottawa requested an LRAM recovery of $(491,812), including principal of $(444,449) and carrying charges of $(47,363). This updated amount represents Conservation and Demand Management ("CDM") savings reported in 2014 and includes the adjustments for 2013, 2015, and 2016. The LRAM calculation is included in UPDATED Attachment 9-1-1(A): OEB Workform - Deferral and Variance Account (Continuity Schedule). In addition, please refer to UPDATED Exhibit 9-3-1: Disposition of Deferral and Variance Accounts for details regarding the disposition period and rate riders for the LRAM variance account ("LRAMVA").

At the time of filing this Application, Hydro Ottawa can support the 2014 LRAM claims. Hydro Ottawa may provide further LRAM claims for years after 2014 as part of future updates to this Application.

At the time of filing updates to this Application which account for 2019 actuals, Hydro Ottawa can support the 2014, 2015, and 2016 LRAM claims. Hydro Ottawa does not intend to propose any further years to be cleared at this time.

2. INPUT ASSUMPTIONS

Hydro Ottawa confirms that it is using the most recent input assumptions available for calculating lost revenue at the time of filing this Application. This includes the final 2014 to 2017 verified results report from the Independent Electricity System Operator ("IESO") and the Program Participation & Cost Report for 2018, dated February 15, 2019. For detailed savings inputs for 2014, please refer to Attachment 4-5-2(A): OEB Workform - 2014 LRAM VA Workform

and Attachment 4-5-2(B): OEB Workform - 2014 Adjustments - LRAM VA Workform. After accounting for 2019 actuals, Attachments for 2015 and 2016 LRAM calculation have been included. New Attachments have been included, as follows:

- Attachment 4-5-2(C): OEB Workform - 2015 (2011-2014) - LRAM VA Workform
- Attachment 4-5-2(D): OEB Workform - 2015 (2015-2020) - LRAM VA Workform
- Attachment 4-5-2(E): OEB Workform - 2016 - LRAM VA Workform

Hydro Ottawa confirms that it has relied upon the most recent final IESO CDM reports evaluation from 2014 to 2017 in support of the lost revenue calculation for 2014 to 2016. For 2018 adjustments, Hydro Ottawa followed the guidance provided in the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements"). The IESO's Final Verified 2014, 2015, and 2016 CDM Reports can be found in Attachment 4-5-1(A), Attachment 4-5-1(B), and Attachment 4-5-1(C), respectively.

Hydro Ottawa used its respective OEB-approved variable distribution charges in calculating the lost revenue. Hydro Ottawa confirms that carrying charges are being requested on the LRAMVA. The interest rate used for the calculation of all carrying charges was that which was prescribed by the OEB and published quarterly on its website. Please see UPDATED Exhibit 9-1-1: Summary of Current Deferral and Variance Accounts for further details on the carrying charges.

Hydro Ottawa notes that the OEB has indicated that adjustments to past LRAM claims should not be requested. Hydro Ottawa is seeking recovery of the 2013 adjustments that were first reported on the IESO Final Verified 2014 CDM Report ("2014 Report"). The 2013 adjustments were received after the initial filing of Hydro Ottawa's 2016-2020 Custom Incentive Rate-Setting

("Custom IR") application, which included the utility's disposal requests.[1] At the time of that application's filing, the OEB had previously directed that "At a minimum, distributors must apply for the disposition of the balance in the LRAMVA as part of their COS applications."[2] In its 2016-2020 application, Hydro Ottawa complied with these instructions.

Subsequent to Hydro Ottawa's approved disposal, the OEB clarified that the LRAMVA account disposition was related to the calendar year rather than the IESO report. Had this clarification been made prior to Hydro Ottawa requesting disposition, the utility would have considered it prudent to wait to clear the 2013 year (given that the IESO reports could include significant adjustments). As such, Hydro Ottawa is requesting only the 2013 adjustments related to the 2014 Report and believes that this falls within prospective treatment of changes in requirements.

In addition, at this time Hydro Ottawa will not request disposition of LRAM amounts after 2014 until it has determined that no material adjustments are outstanding related to years after 2014. Hydro Ottawa will provide an update on this matter at a later point in this Application's proceeding.

By way of the filing of updates to this Application to account for 2019 actuals, Hydro Ottawa is requesting to dispose of LRAM amounts to the end of 2016.

For lost revenue in relation to streetlights, Hydro Ottawa has maintained a database of converted lights which tracks the original light fixture kWh and kW, as well as the kWh and kW after the light has been converted. Hydro Ottawa has used this data to support the streetlight lost revenue claim.

[1] Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Distribution Rate Application*, EB-2015-0004 (April 29, 2015).
[2] Ontario Energy Board, *Chapter 2 - Cost of Service Rate Applications Based on a Foreward Test Year* (July 18, 2014).

3. CDM PROGRAMS AND INITIATIVES BY RATE CLASS

Table 1 shows the Lost Revenue from the IESO Final Verified Annual 2014 CDM Report by rate class and by year.

Table 1 – Lost Revenue by Year by Rate Class - 2014 Report[3]

	2013	2014	Total
Residential	$11,116	$301,347	$312,463
GS< 50 kW	$549	$248,301	$248,850
Commercial	$56,120	$(105,180)	$(49,061)
Unmetered	$0	$(4,051)	$(4,051)
Streetlighting	$0	$(16,390)	$(16,390)
TOTAL[4]	**$67,785**	**$424,027**	**$491,812**

Table 2, as updated below, provides a further breakdown and allocation of the commercial class into Hydro Ottawa's > 50 kW commercial classes. (In addition, the revisions presented below to Table 2, as originally submitted, are the result of changing the allocation to the relevant commercial kW. In preparing its updates to account for 2019 actuals, Hydro Ottawa noticed that Table 2, as originally submitted, had used the estimated Non RPP kW).

Table 2 – AS ORIGINALLY SUBMITTED – > 50 kW Commercial Allocation

	kW	Allocated %	Allocated $
General Service 50 to 1,499 kW	5,288,918	68.9%	$(33,797)
General Service 1,500 to 4,999 kW	1,422,314	18.5%	$(9,089)
Large Use	966,207	12.6%	$(6,174)
TOTAL[5]	**7,677,439**	**100%**	**$(49,060)**

[3] Breakdown by interest and principal are summarized in Attachment 4-5-2(A): OEB Workform - 2014 LRAM VA Workform and Attachment 4-5-2(B): OEB Workform - 2014 Adjustments - LRAM VA Workform.
[4] Totals may not sum due to rounding.
[5] *Ibid.*

Table 2 – AS REVISED – > 50 kW Commercial Allocation

	kW	Allocated %	Allocated $
General Service 50 to 1,499 kW	6,816,104	72.6%	$(35,623)
General Service 1,500 to 4,999 kW	1,518,349	16.2%	$(7,935)
Large Use	1,052,899	11.2%	$(5,503)
TOTAL[6]	**9,387,352**	**100%**	**$(49,061)**

Table 2 – UPDATED FOR 2019 ACTUALS – > 50 kW Commercial Allocation

	kW	Allocated %	Allocated $
General Service 50 to 1,499 kW	6,702,839	73.3%	$(35,981)
General Service 1,500 to 4,999 kW	1,429,266	15.6%	$(7,672)
Large Use	1,007,309	11.0%	$(5,407)
TOTAL[7]	**9,139,414**	**100%**	**$(49,061)**

For 2014, Hydro Ottawa does not have customer level data to allocate savings to the > 50 kW customer classes. The utility has continued to use the same methodology for disposing of LRAM claims for the 2014 Report as was used for the 2011-2013 reports. Hydro Ottawa confirms that, for years after 2014, customer level data will be used to allocate savings to customer classes.

Table 3 below presents a summary of the Lost Revenue being claimed by Hydro Ottawa for the 2014-2016 years by rate class and by year.

[6] *Ibid.*
[7] *Ibid.*

Table 3 – Lost Revenue by Year by Rate Class 2014-2016

	2014	2015	2016	Total
Residential	$312,463	$757,287	$783,443	$1,853,194
GS< 50 kW	$248,850	$424,600	$148,643	$822,093
General Service 50 to 1,499 kW	$(35,981)	$143,676	$(342,987)	$(235,293)
General Service 1,500 to 4,999 kW	$(7,672)	$60,292	$91,021	$143,641
Large Use	$(5,407)	$20,538	$141,742	$156,872
Unmetered	$(4,051)	$0	$0	$(4,051)
Streetlighting	$(16,390)	$0	$13,285	$(3,104)
TOTAL[8]	**$ 491,812**	**$ 1,406,393**	**$ 835,147**	**$ 2,733,351**

CDM programs/initiatives by rate class indicating the energy savings (kWh) and peak demand (kW) savings assigned to the programs/initiatives are available in Attachment 4-5-2:(A) OEB Workform - 2014 LRAM VA Workform and Attachment 4-5-2(B): OEB Workform - 2014 Adjustments - LRAM VA Workform, as well as the Attachments listed in section 2 above for 2015 and 2016 LRAM calculations. For descriptions of these initiatives, please see the following IESO annual reports appended to this Schedule:

- Attachment 4-5-1(A): IESO Final Verified 2014 CDM Report
- Attachment 4-5-1(B): IESO Final Verified 2015 CDM Summary Report
- Attachment 4-5-1(C): IESO Final Verified 2016 CDM Summary Report
- Attachment 4-5-1(D): IESO Final Verified 2017 CDM Summary Report

4. OEB-APPROVED PROGRAMS

Hydro Ottawa did not undertake any OEB-approved CDM programs since 2014. All CDM programs were IESO-funded. Thus, as per section 6.1.1 of the Conservation and Demand Management Code, no separate third-party independent verification is required.[9]

[8] Totals may not sum due to rounding.
[9] Ontario Energy Board, *Conservation and Demand Management Code for Electricity Distributors* (September 16, 2010), page 14.

Ontario Energy Board

Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 4.0 (2020)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	**Tables 1-a and 1-b** provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	**Tables A-1 and A-2** include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	**Tables 2-a, 2-b and 2-c** include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	**Tables 3-a and 3-b** include the distribution rates that are used to calculate lost revenues.
3-a. Rate Class Allocations	A blank spreadsheet is provided to allow LDCs to populate distributor specific rate class percentages to allocate actual CDM savings to different customer classes.
4. 2011-2014 LRAM	**Tables 4-a, 4-b, 4-c and 4-d** include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	**Tables 5-a, 5-b, 5-c and 5-d** include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	**Table 6-b** includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Report	A blank spreadsheet is provided to allow LDCs to populate with CDM savings persistence data provided by the IESO.
8. Streetlighting	A blank spreadsheet is provided to allow LDCs to populate data on streetlighting projects whose savings were not provided by the IESO in the CDM Final Results Report (i.e., streetlighting projects).

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.

Ontario Energy Board

LRAMVA Work Form: Instructions

Version 4.0 (2020)

Tab	Instructions
LRAMVA Checklist/Schematic Tab	The LRAMVA work form was created in a generic manner for use by all LDCs. There are some elements that are not applicable at this time (i.e. 2019 and 2020 related components) but have been included in an effort to avoid major updates in the future. Distributors should follow the checklist, which is referenced in this tab of the work form and listed below: o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a. o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form. o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved. o Include a copy of initiative-level persistence savings information that was verified by the IESO. Persistence information is available upon request from the IESO. o Apply the IESO verified savings adjustments to the year it relates to. For example, savings adjustments to 2015 programs will be provided to LDCs with the 2016 Final Results Report. The 2015 savings adjustments should be included in the 2015 verified savings portion of the work form. o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable. o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a.
Tab 1. LRAMVA Summary	Distributors are required to report any past approved LRAMVA amounts along with the current LRAMVA amount requested for approval. There are separate tables indicating new lost revenues and carrying charges amounts by year and the totals for rate rider calculations.
Tab 1-a. Summary of Changes	Distributors should list all significant changes and changes in assumptions in the generic work form affecting the LRAMVA.
Tab 2. LRAMVA Threshold	Distributors should use the tables to display the LRAMVA threshold amounts as approved at a rate class level. This should be taken from the LDC's most recently approved cost of service application.
Tab 3. Distribution Rates	Distributors should complete the tables with rate class specific distribution rates and adjustments as applicable.
Tab 3-a. Rate Class Allocations	A tab is provided to allow LDCs to include documentation or analysis on how rate class allocations for actual CDM savings were determined by customer class and program each year. The rate class allocations would support the LRAMVA rate class allocation figures used in Tabs 4 and 5.
Tabs 4 and 5 (2011-2020)	Distributors should complete the lost revenue calculation for 2011-2014 program years and 2015-2020 program years, as applicable, by undertaking the following: o Input or manually link the savings, adjustments and program savings persistence data from Tab 7 (Persistence Report) to Tabs 4 and 5. As noted earlier, persistence data is available upon request from the IESO. o Ensure that the IESO verified savings adjustments apply to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. o Confirm the monthly multipliers applied to demand savings. If a different monthly multiplier is used than what was confirmed in the LRAMVA Report, provide rationale in Tab 1-a and highlight the new monthly multiplier that has been used. o Input the rate class allocations by program and year to allocate actual savings to customers. If a different allocation is proposed for adjustments, LDCs must provide the supporting rationale in Tab 1-a and highlight the change. o Provide assumptions about the year(s) in which persistence is captured in the load forecast via the "Notes" section of each table and adjust what is included in the LRAMVA totals, as appropriate.
Tab 6. Carrying Charges	Distributors are requested to calculate carrying charges based on the methodology provided in the work form. This includes updating Table 6 as new prescribed interest rates for deferral and variance accounts become available and entering any collected interest amounts into the "Amounts Cleared" row to calculate outstanding variances on carrying charges.
Tab 7. Persistence Report	Persistence savings report(s) provided by the IESO should be included for the relevant years in the LRAMVA work form. Tab 7 has been created consistently with the IESO's persistence report.
Tab 8. Streetlighting	A tab is provided to ensure LDCs include documentation or data to support projects whose program savings were not provided by the IESO (i.e., streetlighting projects).

Ontario Energy Board

LRAMVA Work Form: Checklist and Schematic

Version 4.0 (2020)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA ($) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Legend

Drop Down List (Blue)	

Important Checklist

Yes	o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a
Yes	o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form
Yes	o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved
Yes	o Include a copy of initiative-level persistence savings information that was verified by the IESO in Tab 7. Persistence information is available upon request from the IESO
Yes	o Apply the IESO verified savings adjustments to the year it relates to.
	o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable
Yes	o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	Determined by the LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA ($) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges ($) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA ($) by Rate Class	Tab "1. LRAMVA Summary"			

Ontario Energy Board

LRAMVA Work Form: Summary Tab

Version 4.0 (2020)

Legend

User Inputs (Green)	
Auto Populated Cells (White)	
Instructions (Grey)	

LDC Name: Hydro Ottawa Limited

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2015-0004
Application of Previous LRAMVA Claim	2016 COS/IRM Application
Period of LRAMVA Claimed in Previous Application	2011-2013
Amount of LRAMVA Claimed in Previous Application	-$ 687,335.50

B. Current LRAMVA Application

Current LRAMVA Application (EB#)	EB-2019-0261
Application of Current LRAMVA Claim	2021-2025 CIR
Period of New LRAMVA in this Application	2014-2016
Period of Rate Recovery (# years)	2

Actual Lost Revenues ($)	A	$ 2,095,822
Forecast Lost Revenues ($)	B	$ 1,789,160
Carrying Charges ($)	C	$ 27,912
LRAMVA ($) for Account 1568	A-B+C	$ 334,574

C. Documentation of Changes

Original Amount	$ -
Amount for Final Disposition	$ -

Table 1-a. LRAMVA Totals by Rate Class

Please input the customer rate classes applicable to the LDC and associated billing units (kWh or kW) in Table 1-a below. This will update all tables throughout the workform.

The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. Please also ensure that the principal amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim. Column F of Table 1-a should include projected carrying charges amounts as determined on a rate class basis from Table 1-b below.

NOTE: If the LDC has more than 14 customer classes in which CDM savings was allocated, LDCs must contact OEB staff to make adjustments to the workform.

Customer Class	Billing Unit	Principal ($)	Carrying Charges ($)	Total LRAMVA ($)
Residential	kWh	$232,191	$21,134	$253,324
GS<50 kW	kWh	$195,541	$17,798	$213,339
Commercial 50 kW to Large Use	kW	-$102,320	-$9,313	-$111,633
Unmetered Scattered Load	kWh	-$3,719	-$338	-$4,057
Street Lighting	kW	-$15,031	-$1,368	-$16,399
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
Total		**$306,662**	**$27,912**	**$334,574**

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please insert a 'check mark' to indicate the years in which LRAMVA has been claimed. If you inserted a check-mark for a particular year, please delete the amounts associated with the actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any LRAMVA from a prior year that has already been claimed cannot be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

LDCs are expected to include projected carrying charges amounts in row 84 of Table 1-b below. LDCs should also check accuracy of the years included in the LRAMVA balance in row 85.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting										Total
		kWh	kWh	kW	kWh	kW	0	0	0	0	0	0	0	0	0	
2011 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2011 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2012 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2012 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2013 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2013 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2014 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2014 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2015 Actuals		$752,329.56	$342,394.31	$1,001,098.34	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,095,822.22
2015 Forecast	☐	($520,139.04)	($146,853.00)	($1,103,418.28)	($3,718.64)	($15,030.87)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,789,159.83)
Amount Cleared																
2016 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2016 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2017 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2017 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2018 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2018 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
Carrying Charges		$21,133.69	$17,797.93	($9,313.03)	($338.47)	($1,368.09)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$27,912.03
Total LRAMVA Balance		**$253,324**	**$213,339**	**-$111,633**	**-$4,057**	**-$16,399**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$334,574**

Note: LDC to make note of assumptions included above, if any

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LRAMVA Work Form: Summary of Changes

Version 4.0 (2020)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Instructions (Grey)

Table A-1. Changes to Generic Assumptions in LRAMVA Work Form

Please document any changes in assumptions made to the generic inputs of the LRAMVA work form. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between current year savings and prior year savings adjustments; inclusion of additional adjustments affecting distribution rates; etc. All changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	7. Persistence Data	Row C and D	Correct Initiative and Program name so that consistent through years, for example HVCA to always be HVAC Incentives. Bolded changed items and added comment.	In order to have sumifs formulas work, as Persistence report used a slightly different description.
2	7. Persistence Data	Row H	Correct one year	To balance to IESO report
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

Table A-2. Updates to LRAMVA Disposition

Please document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

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LRAMVA Work Form: Forecast Lost Revenues

Version 4.0 (2020)

Legend

User Inputs (Green)
Drop Down List (Blue)
Auto Populated Cells (White)
Instructions (Grey)

Table 2-a. LRAMVA Threshold 2015

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
		kWh	kWh	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	29,390,965	22,228,164	6,993,000		169,801										
kW	322.951			319,193		3,758									
Summary		22228164	6993000	319193	169800.7857	3758	0	0	0	0	0	0	0	0	0

Years Included in Threshold 4 2011-2014

Source of Threshold EB-2011-0054, Page 13

Table 2-b. LRAMVA Threshold

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
		kWh	kWh	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0														
kW	0														
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold

Source of Threshold 20XX Settlement Agreement, p. X

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
		kWh	kWh	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	2015	22,228,164	6,993,000	319,193	169,801	3,758	0	0	0	0	0	0	0	0	0
2016		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Distribution Rates

Version 4.0 (2020)

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

Please complete Table 3 with the rate class specific distribution rates that pertain to the years of the LRAMVA disposition. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months entered in row 16 of each rate year starting from January to the start of the LDC's rate year. Please enter 0 in row 16, if the rate year begins on January 1. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas in Table 3-a accordingly.

	Billing Unit	EB-2009-XXXX	EB-2010-XXXX	EB-2011-XXXX	EB-2012-XXXX	EB-2013-0143	EB-2014-0085	EB-2015-XXXX	EB-2016-XXXX	EB-2017-XXXX	EB-2018-XXXX	EB-2019-XXXX	EB-2020-XXXX
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)													
Period 2 (# months)		*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*
Residential							$ 0.0234						
Rate rider for tax sharing													
Rate rider for foregone revenue	kWh												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 0.0234	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 0.0234**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
GS<50 kW							$ 0.0210						
Rate rider for tax sharing													
Rate rider for foregone revenue	kWh												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 0.0210	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 0.0210**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Commercial 50 kW to Large Use							$ 3.4569						
Rate rider for tax sharing													
Rate rider for foregone revenue	kW												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 3.4569	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 3.4569**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Unmetered Scattered Load							$ 0.0219						
Rate rider for tax sharing													
Rate rider for foregone revenue	kWh												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 0.0219	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 0.0219**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Street Lighting							$ 3.9997						
Rate rider for tax sharing													
Rate rider for foregone revenue	kW												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 3.9997	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 3.9997**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue	0												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue	0												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue	0												
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	

0														
Rate rider for tax sharing														
Rate rider for foregone revenue	0													
Other														
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0														
Rate rider for tax sharing														
Rate rider for foregone revenue	0													
Other														
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0														
Rate rider for tax sharing														
Rate rider for foregone revenue	0													
Other														
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0														
Rate rider for tax sharing														
Rate rider for foregone revenue	0													
Other														
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0														
Rate rider for tax sharing														
Rate rider for foregone revenue	0													
Other														
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0														
Rate rider for tax sharing														
Rate rider for foregone revenue	0													
Other														
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	

Note: LDC to make note of adjustments made to Table 3 to accommodate the LDC's specific circumstances

Table 3-a. Distribution Rates by Rate Class

Table 3-a below autopopulates the average distribution rates from Table 3. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used.**Please clear the rates related to the year(s) that are not part of the LRAMVA claim.**

The distribution rates that remain in Table 3-a will be used in Tabs 4 and 5 of the work form to calculate actual and forecast lost revenues. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas from Table 3-a, as well as the distribution rate links in Tabs 4 and 5.

Year	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									
	kWh	kWh	kW	kWh	kW	0	0	0	0	0	0	0	0	0
2011	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2012	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2013	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2014	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2015	$0.0234	$0.0210	$3.4569	$0.0219	$3.9997	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2016	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2017	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2018	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000

Note: LDC to make note of the years removed from this table, whose distribution rates are not part of the LRAMVA disposition



Ontario Energy Board

LRAMVA Work Form:
Determination of Rate Class Allocations

Version 4.0 (2020)

Instructions

LDCs must clearly show how it has allocated actual CDM savings to applicable rate classes, including supporting documentation and rationale for its proposal. This should be shown by customer class and program each year.

This information is provided in UPDATED Exhibit 4-5-2: LRAM Variance Account

Ontario Energy Board

LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2011-2014 period. Please input or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless supported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.

4. LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for program savings and its savings adjustments. If a different allocation is proposed for savings adjustments, LDCs must provide supporting rationale in Tab 1-a and highlight the change.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. Please also provide assumptions about the years in which persistence is captured in the load forecast calculation in the "Notes" section below each table.

Tables

Table 4-a 2011 Lost Revenues
Table 4-b 2012 Lost Revenues
Table 4-c 2013 Lost Revenues
Table 4-d 2014 Lost Revenues

Table 4-a. 2011 Lost Revenues Work Form

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA											
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Residential	GS<50 kW	Commercial SI kW to Large Use	Unmetered Scattered Load	Street Lighting								Total
			kWh											kW										kWh	kW											
1	**Consumer Program**	Verified	1,754,416	1,754,416	1,754,416	1,747,243	3,219,576	0	0	0	0	0		246	246	246	238	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Appliance Retirement	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										
	Adjustment to 2011 savings																																		
2	Appliance Exchange	Verified	22,795	22,795	22,795	12,456	0	0	0	0	0	0		19	19	19	7	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										
3	HVAC Incentives	Verified	5,465,411	5,465,411	5,465,411	5,465,411	5,465,411	5,465,411	5,465,411	5,465,411	5,465,411	5,465,411		2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	-968,746	-968,746	-968,746	-968,746	-968,746	-968,746	-968,746	-968,746	-968,746	-968,746		-519	-519	-519	-519	-519	-519	-519	-519	-519	-519	100.00%	0.00%	0.00%										
4	Conservation Instant Coupon Booklet	Verified	1,104,510	1,104,510	1,104,510	1,104,510	1,077,077	922,705	725,167	719,059	561,861	353,846		69	69	69	69	65	61	52	51	59	34	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	15,424	15,424	15,424	15,424	15,424	14,093	8,646	8,624	8,634	3,068		1	1	1	1	1	1	1	1	0	0	100.00%	0.00%	0.00%										
5	Bi-Annual Retailer Event	Verified	1,644,342	1,644,342	1,644,342	1,644,342	4,502,607	1,348,187	1,018,467	1,012,736	1,308,894	420,613		94	94	94	94	89	80	65	65	78	37	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	122,169	122,169	122,169	122,169	122,169	111,977	56,937	55,264	59,924	15,200		6	6	6	6	6	3	3	3	1	0	100.00%	0.00%	0.00%										
6	Retailer Co-op	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										
7	Residential Demand Response	Verified	8,286	0	0	0	0	0	0	0	0	0		3,193	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	-13,236	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										
8	Residential Demand Response (HD)	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										
9	Residential New Construction	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										
	Business Program																																		
10	Retrofit	Verified	15,402,256	15,402,256	15,402,256	15,402,256	15,402,256	15,402,256	15,402,256	15,402,256	13,057,380	13,057,380	12	2,913	2,913	2,913	2,913	2,913	2,913	2,913	2,913	2,617	2,617	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	927,562	927,562	927,562	926,808	926,808	926,808	906,514	849,504	680,149	670,027	12	182	182	182	182	182	182	143	114	112	111	0.00%	0.00%	100.00%										
11	Direct Install Lighting	Verified	3,835,853	3,564,509	3,726,561	2,090,042	2,084,396	2,054,849	400,597	397,369	397,369	397,369	12	1,416	1,416	1,397	794	792	791	490	136	139	139	0.00%	100.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	108,977	108,977	108,977	97,008	97,008	97,008	9,958	9,958	9,958	9,958	12	44	44	36	36	36	36	4	4	4	4	0.00%	100.00%	0.00%										
12	Building Commissioning	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
13	New Construction	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
14	Energy Audit	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	131,991	131,991	137,961	131,991	125,981	0	0	0	0	0	12	27	27	28	27	26	0	0	0	0	0	0.00%	0.00%	100.00%										
15	Small Commercial Demand Response	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%										200%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%										
	Small Commercial Demand Response (HD)	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%										200%
16	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%										
17	Demand Response 3	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										0%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	749	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
	Industrial Program																																		
18	Process & System Upgrades	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
19	Monitoring & Targeting	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
20	Energy Manager	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
21	Retrofit	Verified											12											0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	100.00%										
22	Demand Response 3	Verified																						0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	100.00%										
	Home Assistance Program																																		
23	Home Assistance Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2011 savings	True-up	32,012	32,012	32,012	31,719	31,329	27,395	25,384	23,554	21,204	21,066		2	2	2	2	2	2	2	1	1	1	100.00%	0.00%	0.00%										
	Aboriginal Program																																		
24	Home Assistance Program	Verified																						0.00%	0.00%	0.00%										0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%										
25	Direct Install Lighting	Verified											0											0.00%	0.00%	100.00%										0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	100.00%										
	Pre-2011 Programs completed in 2011																																		
26	Electricity Retrofit Incentive Program	Verified	4,899,976	4,899,976	4,899,976	4,899,976	4,899,976	4,899,976	4,899,976	4,899,976	4,899,976	4,899,976	12	934	934	934	934	934	934	934	934	934	934	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	157,372	157,372	157,372	157,372	157,372	157,372	157,372	157,372	0	0	12	27	27	27	27	27	27	27	0	0	0	0.00%	0.00%	100.00%										
27	High Performance New Construction	Verified	1,651,092	1,651,092	1,651,092	1,651,092	1,651,092	1,651,092	1,651,092	1,651,092	1,651,092	1,651,092	12	321	321	321	321	321	321	321	321	321	321	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	-244,470	-244,470	-244,470	-244,470	-244,470	-244,470	-244,470	-244,470	-244,470	-244,470	12	43	43	43	43	43	43	43	43	43	43	0.00%	0.00%	100.00%										
28	Toronto Comprehensive	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
29	Multifamily Energy Efficiency Rebates	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
30	LDC Custom Programs	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
	Other																																		
31	Program Enabled Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
32	Time of Use Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
33	LDC Pilots	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2011 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										
	Actual CDM Savings in 2011		36,106,208											11,878										9,280,699	3,979,730	53,127	0	0	0	0	0	0	0	0	0	
	Forecast CDM Savings in 2011																							0	0	0	0	0	0	0	0	0	0	0	0	
	Distribution Rate in 2011																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2011 from 2011 programs																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
	Forecast Lost Revenues in 2011																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
	LRAMVA in 2011																																		**$0.00**
	2011 Savings Persisting in 2012																							9,192,433	3,973,377	53,127	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2013																							9,192,433	3,804,498	53,127	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2014																							9,174,626	2,177,046	53,112	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2015																							6,405,049	2,141,852	52,850	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2016																							6,400,042	2,141,852	52,850	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2017																							6,332,266	409,655	52,224	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2018																							6,321,471	406,427	51,876	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2019																							6,787,182	406,427	48,324	0	0	0	0	0	0	0	0	0	
	2011 Savings Persisting in 2020																							5,309,900	406,427	48,312	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of key assumptions included above

Table 4-b. 2012 Lost Revenues Work Form Return to top

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAM/VA												
			2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									Total
	Consumer Program																							kWh	kWh	kW	kW	kW	0	0	0	0	0	0	0	0	
1	Appliance Retirement	Verified	1,040,845	1,040,845	1,040,845	1,039,849	857,669	0	0	0	0	0	0	166	166	166	141	88	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified	43,987	43,987	43,987	42,664	0	0	0	0	0	0	0	25	25	25	24	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified	2,835,583	2,835,583	2,835,583	2,835,583	2,835,583	2,835,583	2,835,583	2,835,583	2,835,583	2,835,583		1,606	1,606	1,606	1,606	1,606	1,606	1,606	1,606	1,606	1,606	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	113,736	113,736	113,736	113,736	113,736	113,736	113,736	113,736	113,736	113,736		56	56	56	56	56	56	56	56	56	56	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified	78,235	78,235	78,235	78,235	77,059	77,059	36,287	36,087	36,087	36,087		13	13	13	13	13	13	11	11	11	11	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Bi-Annual Retailer Event	Verified	1,498,537	1,498,537	1,498,537	1,498,537	1,347,983	1,086,376	747,159	745,666	745,666	376,711		93	83	83	83	76	64	48	48	48	31	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified	50,881	0	0	0	0	0	0	0	0	0		7,249	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	2,049	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Residential New Construction	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Business Program																																			
10	Retrofit	Verified	22,549,492	22,388,167	21,957,628	21,626,668	21,513,912	19,349,112	18,955,923	18,955,923	18,558,409	13,624,369	12	5,116	5,067	4,937	4,842	4,818	4,156	4,092	4,092	4,016	3,150	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	3,403,202	3,403,202	3,388,513	3,387,871	3,387,871	3,148,962	3,114,398	3,114,398	3,019,200	2,270,685	12	620	620	616	616	616	542	534	534	508	478	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	Direct Install Lighting	Verified	3,365,186	3,364,140	3,311,688	1,870,869	1,663,263	380,782	380,782	380,782	380,782	380,782	12	843	842	829	493	491	82	82	82	82	82	0.00%	100.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	63,534	63,534	63,534	49,670	48,870	6,819	6,819	6,819	6,819	6,819	12	19	19	19	15	15	2	2	2	2	2	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Building Commissioning	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	New Construction	Verified	16,176	16,176	16,176	16,176	16,176	16,176	16,176	16,176	16,176	16,176	12	14	14	14	14	14	14	14	14	14	14	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	1,178,763	1,178,763	1,178,763	1,178,763	1,120,045	1,120,071	1,120,071	1,120,071	1,120,071	1,120,071	12	352	352	352	344	342	342	342	342	342	342	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	Energy Audit	Verified	604,230	604,230	604,230	604,230	0	0	0	0	0	0	12	124	124	124	124	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	46,527	46,527	46,527	46,527	0	0	0	0	0	0	12	9	9	9	9	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Small Commercial Demand Response	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%										200%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%										200%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified	27,447	0	0	0	0	0	0	0	0	0		1,660	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%										0%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	3	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																			
18	Process & System Upgrades	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified											12											0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up											12											0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified																						0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																																			
23	Home Assistance Program	Verified	319,766	319,766	319,766	319,766	319,766	319,766	319,272	316,164	121,052	119,428		26	26	26	26	26	26	26	16	14		100.00%	0.00%	0.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																																			
24	Home Assistance Program	Verified																																		0%
	Adjustment to 2012 savings	True-up																																		
25	Direct Install Lighting	Verified											0																							0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																																			
26	Electricity Retrofit Incentive Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified	2,431,058	2,431,058	2,431,058	2,431,058	2,431,058	2,431,058	2,431,058	2,431,058	2,431,058	2,431,058	12	807	807	807	807	807	807	807	807	807	807	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																			
31	Program Enabled Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	LDC Pilots	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%										100%
	Adjustment to 2012 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2012		**39,673,195**											**16,768**										**5,586,589**	**3,429,739**	**64,512**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2012		**1**											**1**										**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

	Distribution Rate in 2012																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2012 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2012 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Total Lost Revenues in 2012																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
	Forecast Lost Revenues in 2012																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
	LRAM/VA in 2012																																			**$0.00**
	2012 Savings Persisting in 2013																							5,930,689	3,427,674	83,924	0	0	0	0	0	0	0	0	0	0	
	2012 Savings Persisting in 2014																							5,930,689	3,375,220	62,316	0	0	0	0	0	0	0	0	0	0	
	2012 Savings Persisting in 2015																							5,925,370	1,928,339	81,176	0	0	0	0	0	0	0	0	0	0	
	2012 Savings Persisting in 2016																							5,350,903	1,912,931	79,191	0	0	0	0	0	0	0	0	0	0	
	2012 Savings Persisting in 2017																							4,441,520	367,381	70,333	0	0	0	0	0	0	0	0	0	0	
	2012 Savings Persisting in 2018																							4,049,037	367,381	69,478	0	0	0	0	0	0	0	0	0	0	
	2012 Savings Persisting in 2019																							4,047,210	367,381	69,478	0	0	0	0	0	0	0	0	0	0	
	2012 Savings Persisting in 2020																							3,852,064	367,381	68,482	0	0	0	0	0	0	0	0	0	0	

Note: IDC to make note of key assumptions included above

Table 4-c. 2013 Lost Revenues Work Form Return to top

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAM/VA												
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting									Total
	Consumer Program																							kWh	kWh	kW	kW	kW	0	0	0	0	0	0	0	0	
1	Appliance Retirement	Verified	681,703	681,703	681,702	676,725	422,186	0	0	0	0	0		104	104	104	102	62	0	0	0	0	0	100.00%	0.00%	0.00%										100%
	Adjustment to 2013 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified	70,563	70,563	70,563	70,563	0	0	0	0	0	0		50	49	49	49	0	0	0	0	0	0	100.00%												100%
	Adjustment to 2013 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified	2,583,561	2,583,561	2,583,561	2,583,561	2,583,561	2,583,561	2,583,561	2,583,561	2,583,561	2,583,561		1,448	1,448	1,448	1,448	1,448	1,448	1,448	1,448	1,448	1,448	100.00%												100%
	Adjustment to 2013 savings	True-up	141,438	141,438	141,438	141,438	141,438	141,438	141,438	141,438	141,438	141,438		80	80	80	80	80	80	80	80	80	80	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified	431,268	431,268	414,648	351,293	351,293	351,293	351,293	351,000	255,236	255,236		29	29	28	24	24	24	24	24	18	18	100.00%												100%
	Adjustment to 2013 savings	True-up	1,318	1,318	1,295	1,085	1,085	1,085	1,085	1,080	911	911		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Bi-Annual Retailer Event	Verified	961,278	961,278	903,359	705,695	705,695	705,695	705,695	704,863	592,749	592,749		66	66	63	50	50	50	50	50	43	43	100.00%												100%
	Adjustment to 2013 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%												100%
	Adjustment to 2013 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified	0	0	0	0	0	0	0	0	0	0		2,879	0	0	0	0	0	0	0	0	0	100.00%												100%
	Adjustment to 2013 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%									

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Ontario Energy Board

LRAMVA Work Form:
2015 - 2020 Lost Revenues Work Form

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2015-2020 period. Please input or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by the IESO in 2017 should be included in the 2016 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.

4. LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for program savings and its savings adjustments. If a different allocation is proposed for savings adjustments, LDCs must provide supporting rationale in Tab 1-a and highlight the change.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. Please also provide assumptions about the years in which persistence is captured in the load forecast calculation in the "Notes" section below each table.

Tables

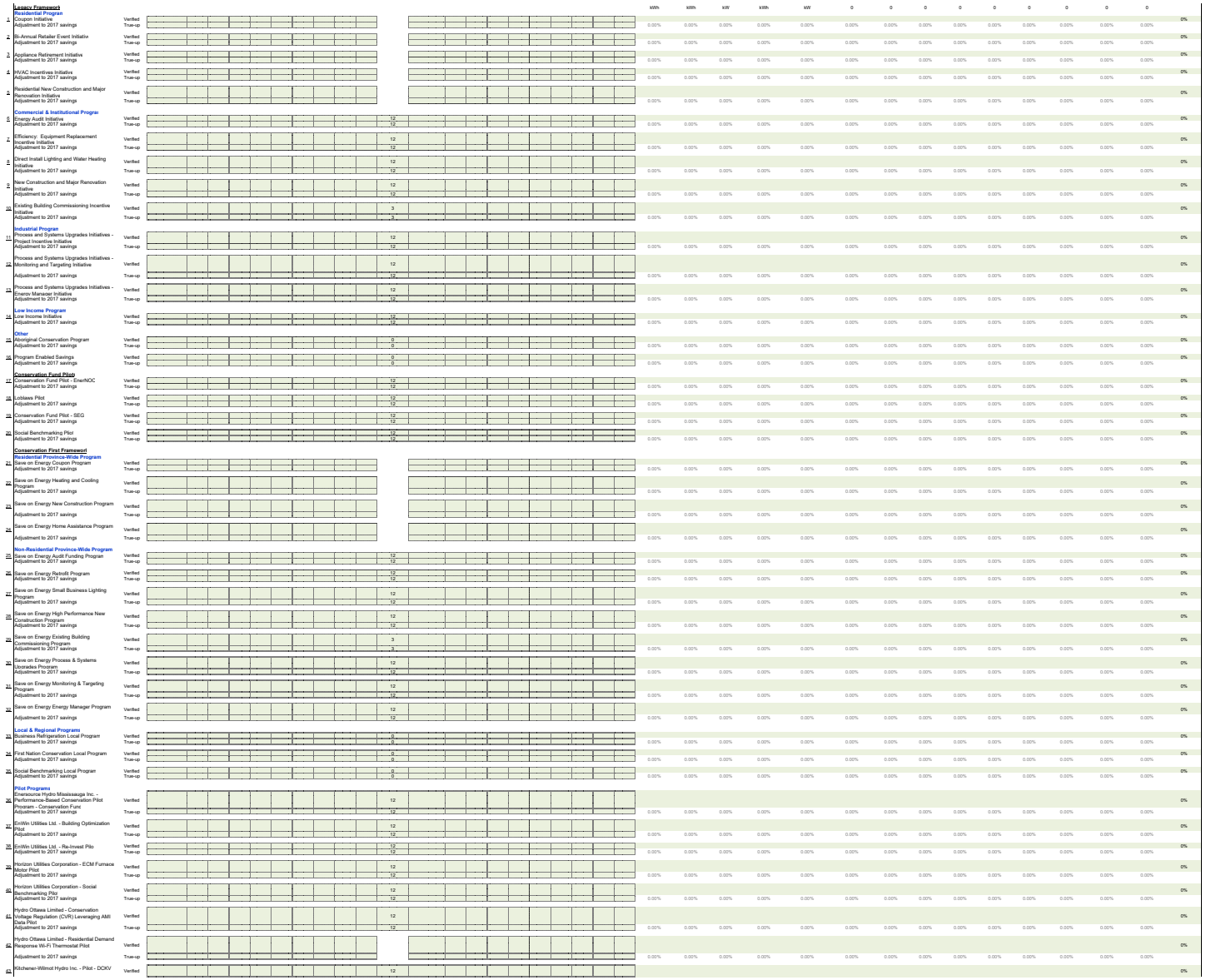
Table 5-a. 2015 Lost Revenues
Table 5-b. 2016 Lost Revenues
Table 5-c. 2017 Lost Revenues
Table 5-d. 2018 Lost Revenues
Table 5-e. 2019 Lost Revenues
Table 5-f. 2020 Lost Revenues

Table 5-a. 2015 Lost Revenues Work Form

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA												Total
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting								
			kWh											kW										kWh	kWh	kW	kWh	kW	0	0	0	0	0	0	0	0	
	Legacy Framework																																			
	Residential Program																																			
1	Coupon Initiative Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
2	Bi-Annual Retailer Event Initiative Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
3	Appliance Retirement Initiative Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
4	HVAC Incentives Initiative Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
5	Residential New Construction and Major Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Commercial & Institutional Program																																			
6	Energy Audit Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
7	Efficiency: Equipment Replacement Incentive Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
8	Direct Install Lighting and Water Heating Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
9	New Construction and Major Renovation Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
10	Existing Building Commissioning Incentive Initiative Adjustment to 2015 savings	Verified True-up											3 3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Industrial Program																																			
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Low Income Program																																			
14	Low Income Initiative Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Other																																			
15	Aboriginal Conservation Program Adjustment to 2015 savings	Verified True-up											0 0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
16	Program Enabled Savings Adjustment to 2015 savings	Verified True-up											0 0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Conservation Fund Pilots																																			
17	Conservation Fund Pilot - Enel/NOC Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
18	Loblaws Pilot Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
19	Conservation Fund Pilot - SEG Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
20	Social Benchmarking Pilot Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Conservation First Framework																																			
	Residential Province-Wide Programs																																			
21	Save on Energy Coupon Program Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
22	Save on Energy Heating and Cooling Program Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
23	Save on Energy New Construction Program Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
24	Save on Energy Home Assistance Program Adjustment to 2015 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
	Non-Residential Province-Wide Programs																																			
25	Save on Energy Audit Funding Program Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
26	Save on Energy Retrofit Program Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
27	Save on Energy Small Business Lighting Program Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
28	Save on Energy High Performance New Construction Program Adjustment to 2015 savings	Verified True-up											12 12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%
29	Save on Energy Existing Building Commissioning Program Adjustment to 2015 savings	Verified True-up											3 3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%

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	Legacy Framework		kWh	kWh	kW	kWh	kW	0	0	0	0	0	0	0	0	0	
	Residential Program																
1	Coupon Initiative	Verified															0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiativ	Verified															0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified															0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initiative	Verified															0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major	Verified															0%
	Renovation Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Prograi																
6	Energy Audit Initiative	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement	Verified				12											0%
	Incentive Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating	Verified				12											0%
	Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation	Verified				12											0%
	Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive	Verified				3											0%
	Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																
11	Process and Systems Upgrades Initiatives -	Verified				12											0%
	Project Incentive Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives -	Verified				12											0%
	Monitoring and Targeting Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives -	Verified				12											0%
	Energy Manager Initiative																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																
14	Low Income Initiative	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																
15	Aboriginal Conservation Program	Verified				0											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified				0											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilot																
17	Conservation Fund Pilot - EnerNOC	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Loblaws Pilot	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																
	Residential Province-Wide Program																
21	Save on Energy Coupon Program	Verified															0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling	Verified															0%
	Program																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified															0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified															0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Program																
25	Save on Energy Audit Funding Program	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Save on Energy Retrofit Program	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting	Verified				12											0%
	Program																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New	Verified				12											0%
	Construction Program																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building	Verified				3											0%
	Commissioning Program																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	Save on Energy Process & Systems	Verified				12											0%
	Upgrades Program																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	Save on Energy Monitoring & Targeting	Verified				12											0%
	Program																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Save on Energy Energy Manager Program	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Local & Regional Programs																
33	Business Refrigeration Local Program	Verified				0											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	First Nation Conservation Local Program	Verified				0											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	Social Benchmarking Local Program	Verified				0											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pilot Programs																
36	Enersource Hydro Mississauga Inc. -	Verified				12											0%
	Performance-Based Conservation Pilot																
	Program - Conservation Func																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37	EnWin Utilities Ltd. - Building Optimization	Verified				12											0%
	Pilot																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
38	EnWin Utilities Ltd. - Re-Invest Pilo	Verified				12											0%
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39	Horizon Utilities Corporation - ECM Furnace	Verified				12											0%
	Motor Pilot																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40	Horizon Utilities Corporation - Social	Verified				12											0%
	Benchmarking Pilot																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
41	Hydro Ottawa Limited - Conservation	Verified				12											0%
	Voltage Regulation (CVR) Leveraging AMI																
	Data Pilot																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42	Hydro Ottawa Limited - Residential Demand	Verified															0%
	Response Wi-Fi Thermostat Pilot																
	Adjustment to 2017 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
43	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified				12											0%

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Ontario Energy Board

LRAMVA Work Form:
Carrying Charges by Rate Class

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. Monthly interest rates are used to calculate the variance on the carrying charges for LRAMVA. Starting from column I, the principal will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rate from column H to determine the monthly variances on carrying charges for each rate class by year.

2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

3. Please calculate the projected interest amounts in the LRAMVA work form. Project carrying charges amounts incuded in Table 6-a should be consistent with the projected interest amounts included in the DVA Continuity Schedule. **If there are additional adjustments required to the formulas to calculate the projected interest amounts, please adjust the formulas in Table 6-a accordingly.**

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.50%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	2.17%
2019 Q1	2.45%
2019 Q2	2.18%
2019 Q3	2.18%
2019 Q4	2.18%
2020 Q1	2.18%
2020 Q2	2.18%
2020 Q3	2.18%
2020 Q4	2.18%

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Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	Commercial 50 kW to Large Use	Unmetered Scattered Load	Street Lighting										Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																		
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																		
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																		
Opening Balance for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**

Amount Cleared																		
Opening Balance for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-15	2011-2015	Q1	0.12%	$23.70	$19.96	-$10.45	-$0.38	-$1.53	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$31.31
Mar-15	2011-2015	Q1	0.12%	$47.41	$39.92	-$20.89	-$0.76	-$3.07	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$62.61
Apr-15	2011-2015	Q2	0.09%	$53.21	$44.81	-$23.45	-$0.85	-$3.44	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$70.28
May-15	2011-2015	Q2	0.09%	$70.95	$59.75	-$31.26	-$1.14	-$4.59	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$93.70
Jun-15	2011-2015	Q2	0.09%	$88.68	$74.69	-$39.08	-$1.42	-$5.74	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$117.13
Jul-15	2011-2015	Q3	0.09%	$106.42	$89.62	-$46.90	-$1.70	-$6.89	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$140.55
Aug-15	2011-2015	Q3	0.09%	$124.16	$104.56	-$54.71	-$1.99	-$8.04	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$163.98
Sep-15	2011-2015	Q3	0.09%	$141.89	$119.50	-$62.53	-$2.27	-$9.19	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$187.40
Oct-15	2011-2015	Q4	0.09%	$159.63	$134.43	-$70.34	-$2.56	-$10.33	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$210.83
Nov-15	2011-2015	Q4	0.09%	$177.37	$149.37	-$78.16	-$2.84	-$11.48	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$234.26
Dec-15	2011-2015	Q4	0.09%	$195.10	$164.31	-$85.98	-$3.12	-$12.63	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$257.68
Total for 2015				**$1,188.53**	**$1,000.93**	**-$523.75**	**-$19.03**	**-$76.94**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$1,569.73**
Amount Cleared																		
Opening Balance for 2016				**$1,188.53**	**$1,000.93**	**-$523.75**	**-$19.03**	**-$76.94**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$1,569.73**
Jan-16	2011-2016	Q1	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Feb-16	2011-2016	Q1	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Mar-16	2011-2016	Q1	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Apr-16	2011-2016	Q2	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
May-16	2011-2016	Q2	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Jun-16	2011-2016	Q2	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Jul-16	2011-2016	Q3	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Aug-16	2011-2016	Q3	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Sep-16	2011-2016	Q3	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Oct-16	2011-2016	Q4	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Nov-16	2011-2016	Q4	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Dec-16	2011-2016	Q4	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Total for 2016				**$3,742.62**	**$3,151.88**	**-$1,649.27**	**-$59.94**	**-$242.28**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$4,943.01**
Amount Cleared																		
Opening Balance for 2017				**$3,742.62**	**$3,151.88**	**-$1,649.27**	**-$59.94**	**-$242.28**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$4,943.01**
Jan-17	2011-2017	Q1	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Feb-17	2011-2017	Q1	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Mar-17	2011-2017	Q1	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Apr-17	2011-2017	Q2	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
May-17	2011-2017	Q2	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Jun-17	2011-2017	Q2	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Jul-17	2011-2017	Q3	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Aug-17	2011-2017	Q3	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Sep-17	2011-2017	Q3	0.09%	$212.84	$179.25	-$93.79	-$3.41	-$13.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$281.11
Oct-17	2011-2017	Q4	0.13%	$290.24	$244.43	-$127.90	-$4.65	-$18.79	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$383.33
Nov-17	2011-2017	Q4	0.13%	$290.24	$244.43	-$127.90	-$4.65	-$18.79	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$383.33
Dec-17	2011-2017	Q4	0.13%	$290.24	$244.43	-$127.90	-$4.65	-$18.79	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$383.33
Total for 2017				**$6,528.91**	**$5,498.38**	**-$2,877.11**	**-$104.56**	**-$422.65**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$8,622.96**
Amount Cleared																		
Opening Balance for 2018				**$6,528.91**	**$5,498.38**	**-$2,877.11**	**-$104.56**	**-$422.65**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$8,622.96**
Jan-18	2011-2018	Q1	0.13%	$290.24	$244.43	-$127.90	-$4.65	-$18.79	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$383.33
Feb-18	2011-2018	Q1	0.13%	$290.24	$244.43	-$127.90	-$4.65	-$18.79	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$383.33
Mar-18	2011-2018	Q1	0.13%	$290.24	$244.43	-$127.90	-$4.65	-$18.79	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$383.33
Apr-18	2011-2018	Q2	0.16%	$365.70	$307.98	-$161.15	-$5.86	-$23.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$482.99
May-18	2011-2018	Q2	0.16%	$365.70	$307.98	-$161.15	-$5.86	-$23.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$482.99
Jun-18	2011-2018	Q2	0.16%	$365.70	$307.98	-$161.15	-$5.86	-$23.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$482.99
Jul-18	2011-2018	Q3	0.16%	$365.70	$307.98	-$161.15	-$5.86	-$23.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$482.99
Aug-18	2011-2018	Q3	0.16%	$365.70	$307.98	-$161.15	-$5.86	-$23.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$482.99
Sep-18	2011-2018	Q3	0.16%	$365.70	$307.98	-$161.15	-$5.86	-$23.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$482.99
Oct-18	2011-2018	Q4	0.18%	$419.88	$353.60	-$185.03	-$6.72	-$27.18	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$554.55
Nov-18	2011-2018	Q4	0.18%	$419.88	$353.60	-$185.03	-$6.72	-$27.18	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$554.55
Dec-18	2011-2018	Q4	0.18%	$419.88	$353.60	-$185.03	-$6.72	-$27.18	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$554.55
Total for 2018				**$10,853.46**	**$9,140.33**	**-$4,782.82**	**-$173.82**	**-$702.60**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$14,334.55**
Amount Cleared																		
Opening Balance for 2019				**$10,853.46**	**$9,140.33**	**-$4,782.82**	**-$173.82**	**-$702.60**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$14,334.55**
Jan-19	2011-2019	Q1	0.20%	$474.06	$399.23	-$208.90	-$7.59	-$30.69	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$626.10
Feb-19	2011-2019	Q1	0.20%	$474.06	$399.23	-$208.90	-$7.59	-$30.69	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$626.10
Mar-19	2011-2019	Q1	0.20%	$474.06	$399.23	-$208.90	-$7.59	-$30.69	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$626.10
Apr-19	2011-2019	Q2	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
May-19	2011-2019	Q2	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Jun-19	2011-2019	Q2	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Jul-19	2011-2019	Q3	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Aug-19	2011-2019	Q3	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Sep-19	2011-2019	Q3	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Oct-19	2011-2019	Q4	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Nov-19	2011-2019	Q4	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Dec-19	2011-2019	Q4	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Total for 2019				**$16,071.94**	**$13,535.13**	**-$7,082.46**	**-$257.40**	**-$1,040.42**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$21,226.79**
Amount Cleared																		
Opening Balance for 2020				**$16,071.94**	**$13,535.13**	**-$7,082.46**	**-$257.40**	**-$1,040.42**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$21,226.79**
Jan-20	2011-2020	Q1	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Feb-20	2011-2020	Q1	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Mar-20	2011-2020	Q1	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Apr-20	2011-2020	Q2	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
May-20	2011-2020	Q2	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Jun-20	2011-2020	Q2	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Jul-20	2011-2020	Q3	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Aug-20	2011-2020	Q3	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Sep-20	2011-2020	Q3	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Oct-20	2011-2020	Q4	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Nov-20	2011-2020	Q4	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Dec-20	2011-2020	Q4	0.18%	$421.81	$355.23	-$185.88	-$6.76	-$27.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$557.10
Total for 2020				**$21,133.69**	**$17,797.93**	**-$9,313.03**	**-$338.47**	**-$1,368.09**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$27,912.03**
Amount Cleared																		

Ontario Energy Board

Supporting Documentation:
LDC Persistence Savings Results from IESO

Version 4.0 (2020)

Legend:

User Inputs (Green)
Drop Down List (Blue)
Exclusions (Grey)

Instructions (Steps)

5. Columns B to H of this tab have been structured in a way to match the formatting of the persistence report provided by the IESO. Please copy and paste the program information by initiative in Columns B to H and the corresponding demand and energy savings data by initiative in Columns L to BT of this work form.
3. Please identify the source of the report via the dropdown list in Column I.
4. To facilitate the identification of adjustments that may be available in a prospective year's results report, it will be easier to sort all the savings by implementation year (Column H). This can be done by clicking on the filter button at cell H29 (highlighted in orange). Before you sort values, please ensure that all table columns have filters.
4. Please identify what the savings value represents (i.e., current year savings for the year or as adjustment to a prior year) via the dropdown list in Column J. Current year savings would be identified with an implementation year that matches the year of the persistence report. A savings adjustment would be identified with a prior year implementation in the future year's results report.
5. Please manually input or link the applicable savings and adjustments (Columns L to BT) for all applicable initiatives in Tabs 4 and 5 of this work form.
NOTE: The Net Verified Peak Demand Savings table and Net Verified Energy Savings table below are in the reverse order to the accompanying tables in Tab 4 and Tab 5. The tables below match those provided by the IESO.

Table 7. 2011-2020 Verified Program Results and Persistence into Future Years

| Year | Portfolio | Program | Initiative | LDC | Sector | Construction Resource Type | Implementation Year | Measure Life | Identify Source of Report | Identify Status of Savings | Net Verified Annual Peak Demand Savings at the End User Level [kW] | | |

Ontario Energy Board

LRAMVA Work Form: Documentation for Streetlighting Projects

Version 4.0 (2020)

Legend User Inputs (Green)

Instructions

Please provide documentation and/or data to substantiate program savings that were not provided in the IESO's verified results reports (i.e., streetlighting projects).

Distributors are encouraged to provide data in the following format, and complete a separate set of following tables for each project. The tables below are meant to be an example. Distributors should complete the tables based on the actual project details. Please create the necessary links to Tab 4/5 and tabulations within this LRAMVA workform to calculate the LRAMVA amounts. Alternatively, LDCs may submit a separate attachment with the project level details for billed demand by type of bulb.

Table 8-a: Name of Muncipality

Summary of Project #1

Actual lost revenue based on kW billing				
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	a	b	c	b * c
Jan 20xx	0.00			
Feb 20xx	0.00	0.00		0
Mar 20xx				
Apr 20xx				
May 20xx				
June 20xx				
Jul 20xx				
Aug 20xx				
Sep 20xx				
Oct 20xx				
Nov 20xx				
Dec 20xx				
Total				**0**
Persistence in 20XX				
Persistence in 20XX				
Persistence in 20XX				
Persistence in 20XX				

Details of Project #1 (Month, Year)

Pre-conversion billing demand

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d	e	d * e
			0

Ontario Energy Board

Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 4.0 (2020)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	**Tables 1-a and 1-b** provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	**Tables A-1 and A-2** include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	**Tables 2-a, 2-b and 2-c** include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	**Tables 3-a and 3-b** include the distribution rates that are used to calculate lost revenues.
3-a. Rate Class Allocations	A blank spreadsheet is provided to allow LDCs to populate distributor specific rate class percentages to allocate actual CDM savings to different customer classes.
4. 2011-2014 LRAM	**Tables 4-a, 4-b, 4-c and 4-d** include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	**Tables 5-a, 5-b, 5-c and 5-d** include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	**Table 6-b** includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Report	A blank spreadsheet is provided to allow LDCs to populate with CDM savings persistence data provided by the IESO.
8. Streetlighting	A blank spreadsheet is provided to allow LDCs to populate data on streetlighting projects whose savings were not provided by the IESO in the CDM Final Results Report (i.e., streetlighting projects).

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Ontario Energy Board

LRAMVA Work Form: Instructions

Version 4.0 (2020)

Tab	Instructions
LRAMVA Checklist/Schematic Tab	The LRAMVA work form was created in a generic manner for use by all LDCs. There are some elements that are not applicable at this time (i.e. 2019 and 2020 related components) but have been included in an effort to avoid major updates in the future. Distributors should follow the checklist, which is referenced in this tab of the work form and listed below: o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a. o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form. o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved. o Include a copy of initiative-level persistence savings information that was verified by the IESO. Persistence information is available upon request from the IESO. o Apply the IESO verified savings adjustments to the year it relates to. For example, savings adjustments to 2015 programs will be provided to LDCs with the 2016 Final Results Report. The 2015 savings adjustments should be included in the 2015 verified savings portion of the work form. o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable. o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a.
Tab 1. LRAMVA Summary	Distributors are required to report any past approved LRAMVA amounts along with the current LRAMVA amount requested for approval. There are separate tables indicating new lost revenues and carrying charges amounts by year and the totals for rate rider calculations.
Tab 1-a. Summary of Changes	Distributors should list all significant changes and changes in assumptions in the generic work form affecting the LRAMVA.
Tab 2. LRAMVA Threshold	Distributors should use the tables to display the LRAMVA threshold amounts as approved at a rate class level. This should be taken from the LDC's most recently approved cost of service application.
Tab 3. Distribution Rates	Distributors should complete the tables with rate class specific distribution rates and adjustments as applicable.
Tab 3-a. Rate Class Allocations	A tab is provided to allow LDCs to include documentation or analysis on how rate class allocations for actual CDM savings were determined by customer class and program each year. The rate class allocations would support the LRAMVA rate class allocation figures used in Tabs 4 and 5.
Tabs 4 and 5 (2011-2020)	Distributors should complete the lost revenue calculation for 2011-2014 program years and 2015-2020 program years, as applicable, by undertaking the following: o Input or manually link the savings, adjustments and program savings persistence data from Tab 7 (Persistence Report) to Tabs 4 and 5. As noted earlier, persistence data is available upon request from the IESO. o Ensure that the IESO verified savings adjustments apply to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. o Confirm the monthly multipliers applied to demand savings. If a different monthly multiplier is used than what was confirmed in the LRAMVA Report, provide rationale in Tab 1-a and highlight the new monthly multiplier that has been used. o Input the rate class allocations by program and year to allocate actual savings to customers. If a different allocation is proposed for adjustments, LDCs must provide the supporting rationale in Tab 1-a and highlight the change. o Provide assumptions about the year(s) in which persistence is captured in the load forecast via the "Notes" section of each table and adjust what is included in the LRAMVA totals, as appropriate.
Tab 6. Carrying Charges	Distributors are requested to calculate carrying charges based on the methodology provided in the work form. This includes updating Table 6 as new prescribed interest rates for deferral and variance accounts become available and entering any collected interest amounts into the "Amounts Cleared" row to calculate outstanding variances on carrying charges.
Tab 7. Persistence Report	Persistence savings report(s) provided by the IESO should be included for the relevant years in the LRAMVA work form. Tab 7 has been created consistently with the IESO's persistence report.
Tab 8. Streetlighting	A tab is provided to ensure LDCs include documentation or data to support projects whose program savings were not provided by the IESO (i.e., streetlighting projects).

Hydro Ottawa Limited
EB-2019-0261
Exhibit 4
Tab 5
Schedule 2
Attachment D
UPDATED
May 5, 2020
Page 3 of 24

Ontario Energy Board

LRAMVA Work Form: Checklist and Schematic

Version 4.0 (2020)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA ($) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Legend

	Drop Down List (Blue)

Important Checklist

	o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a
	o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form
	o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved
	o Include a copy of initiative-level persistence savings information that was verified by the IESO in Tab 7. Persistence information is available upon request from the IESO
	o Apply the IESO verified savings adjustments to the year it relates to.
	o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable
	o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	Determined by the LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA ($) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges ($) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA ($) by Rate Class	Tab "1. LRAMVA Summary"			

Ontario Energy Board

LRAMVA Work Form: Summary Tab

Version 4.0 (2020)

Legend

User Inputs (Green)	
Auto Populated Cells (White)	
Instructions (Grey)	

LDC Name: Hydro Ottawa Limited

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2015-0004
Application of Previous LRAMVA Claim	2016 COS/IRM Application
Period of LRAMVA Claimed in Previous Application	2011-2013
Amount of LRAMVA Claimed in Previous Application	-$ 687,335.50

B. Current LRAMVA Application

Current LRAMVA Application (EB#)	EB-2015-0004
Application of Current LRAMVA Claim	2021-2025 CIR
Period of New LRAMVA in this Application	2014-2016
Period of Rate Recovery (# years)	2

Actual Lost Revenues ($)	A	$ 982,401
Forecast Lost Revenues ($)	B	$ -
Carrying Charges ($)	C	$ 89,417
LRAMVA ($) for Account 1568	A-B+C	$ 1,071,818

C. Documentation of Changes

Original Amount	
Amount for Final Disposition	

Table 1-a. LRAMVA Totals by Rate Class

Please input the customer rate classes applicable to the LDC and associated billing units (kWh or kW) in Table 1-a below. This will update all tables throughout the workform.

The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. Please also ensure that the principal amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim. Column F of Table 1-a should include projected carrying charges amounts as determined on a rate class basis from Table 1-b below.

NOTE: If the LDC has more than 14 customer classes in which CDM savings was allocated, LDCs must contact OEB staff to make adjustments to the workform.

Customer Class	Billing Unit	Principal ($)	Carrying Charges ($)	Total LRAMVA ($)
Residential	kWh	$461,919	$42,043	$503,962
GS<50 kW	kWh	$193,636	$17,625	$211,261
GS 50 TO 1,499 KW	kW	$234,010	$21,299	$255,309
GS 1,500 TO 4,999	kW	$58,981	$5,368	$64,349
Large User	kW	$33,855	$3,081	$36,937
Unmetered Scattered Load	kWh	$0	$0	$0
Street Lighting	kW	$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
Total		**$982,401**	**$89,417**	**$1,071,818**

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please insert a 'check mark' to indicate the years in which LRAMVA has been claimed. If you inserted a check-mark for a particular year, please delete the amounts associated with the actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any LRAMVA from a prior year that has already been claimed cannot be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

LDCs are expected to include projected carrying charges amounts in row 84 of Table 1-b below. LDCs should also check accuracy of the years included in the LRAMVA balance in row 85.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
		kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
2011 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2011 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2012 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2012 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2013 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2013 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2014 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2014 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2015 Actuals	☐	$461,919.18	$193,636.46	$234,009.68	$58,980.87	$33,855.06	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$982,401.26
2015 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2016 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2016 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2017 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2017 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2018 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2018 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
Carrying Charges		$42,043.31	$17,624.55	$21,299.27	$5,368.37	$3,081.44	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$89,416.93

Total LRAMVA Balance		$503,962	$211,261	$255,309	$64,349	$36,937	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,071,818

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Summary of Changes

Version 4.0 (2020)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Instructions (Grey)

Table A-1. Changes to Generic Assumptions in LRAMVA Work Form

Please document any changes in assumptions made to the generic inputs of the LRAMVA work form. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between current year savings and prior year savings adjustments; inclusion of additional adjustments affecting distribution rates; etc. All changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	7. Persistence Data	Column D	Change program name from persistence report to match tables on Tab 5. - Loblaw P4P	To have look-up work from Tab 5. to Tab 7.
2	7. Persistence Data	Column D	Changed Save on Energy Heating & Cooling Program to Save on Energy Heating and	To have look-up work from Tab 5. to Tab 7.
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

Table A-2. Updates to LRAMVA Disposition

Please document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

Ontario Energy Board

LRAMVA Work Form: Forecast Lost Revenues

Version 4.0 (2020)

Legend

User Inputs (Green)
Drop Down List (Blue)
Auto Populated Cells (White)
Instructions (Grey)

Table 2-a. LRAMVA Threshold

2015

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0														
kW	0														
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold

Source of Threshold See 2015 (2011-2015) LRAM

Table 2-b. LRAMVA Threshold

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0														
kW	0														
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold

Source of Threshold

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Correct demand values shown as CDM saving in Settlement Chart

Ontario Energy Board

LRAMVA Work Form: Distribution Rates

Version 4.0 (2020)

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

Please complete Table 3 with the rate class specific distribution rates that pertain to the years of the LRAMVA disposition. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months entered in row 16 of each rate year starting from January to the start of the LDC's rate year. Please enter 0 in row 16, if the rate year begins on January 1. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas in Table 3-a accordingly.

	Billing Unit	EB-2009-XXXX	EB-2010-XXXX	EB-2011-XXXX	EB-2012-XXXX	EB-2013-XXXX	EB-2014-0085	EB-2015-0004	EB-2016-0084	EB-2017-XXXX	EB-2018-XXXX	EB-2019-XXXX	EB-2020-XXXX
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)													
Period 2 (# months)		*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*
Residential							$ 0.0234						
Rate rider for tax sharing	kWh												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 0.0234	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 0.0234**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
GS<50 kW							$ 0.0210						
Rate rider for tax sharing	kWh												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 0.0210	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 0.0210**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
GS 50 TO 1,499 KW							$ 3.5691						
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 3.5691	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 3.5691**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
GS 1,500 TO 4,999							$ 3.4887						
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 3.4887	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 3.4887**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Large User							$ 3.3129						
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 3.3129	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 3.3129**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Unmetered Scattered Load							$ 0.0219						
Rate rider for tax sharing	kWh												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 0.0219	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 0.0219**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Street Lighting							$ 3.9997						
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 3.9997	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ 3.9997**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	

Note: LDC to make note of adjustments made to Table 3 to accommodate the LDC's specific circumstances

Table 3-a. Distribution Rates by Rate Class

Table 3-a below autopopulates the average distribution rates from Table 3. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used. **Please clear the rates related to the year(s) that are not part of the LRAMVA claim.**

The distribution rates that remain in Table 3-a will be used in Tabs 4 and 5 of the work form to calculate actual and forecast lost revenues. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas from Table 3-a, as well as the distribution rate links in Tabs 4 and 5.

Year	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
	kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0
2011	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2012	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2013	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2014	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2015	$0.0234	$0.0210	$3.5691	$3.4887	$3.3129	$0.0219	$3.9997	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2016	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2017	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2018	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000

Note: LDC to make note of the years removed from this table, whose distribution rates are not part of the LRAMVA disposition

Ontario Energy Board

LRAMVA Work Form:
Determination of Rate Class Allocations

Version 4.0 (2020)

Instructions

LDCs must clearly show how it has allocated actual CDM savings to applicable rate classes, including supporting documentation and rationale for its proposal. This should be shown by customer class and program each year.

This information is provided in UPDATED Exhibit 4-5-2: LRAM Variance Account

Ontario Energy Board

LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2011-2014 period. Please input or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.

4. LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for program savings and its savings adjustments. If a different allocation is proposed for savings adjustments, LDCs must provide supporting rationale in Tab 1-a and highlight the change.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. Please also provide assumptions about the years in which persistence is captured in the load forecast calculation in the "Notes" section below each table.

Tables

Table 4-a: 2011 Lost Revenues
Table 4-b: 2012 Lost Revenues
Table 4-c: 2013 Lost Revenues
Table 4-d: 2014 Lost Revenues

Table 4-a. 2011 Lost Revenues Work Form

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA									
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
	Consumer Program																							kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
1	Appliance Retirement	Verified																																	
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Bi-Annual Retailer Event	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Residential New Construction	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Business Program																																		
10	Retrofit	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	Direct Install Lighting	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Building Commissioning	Verified											1																						0%
	Adjustment to 2011 savings	True-up											1											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	New Construction	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	Energy Audit	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Small Commercial Demand Response	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																		
18	Process & System Upgrades	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																																		
23	Home Assistance Program	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																																		
24	Home Assistance Program	Verified																																	0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	Direct Install Lighting	Verified											0																						0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																																		
26	Electricity Retrofit Incentive Program	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified											12																						0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified											0																						0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified											0																						0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified											0																						0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																		
31	Program Enabled Savings	Verified											0																						0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified											0																						0%

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Ontario Energy Board

LRAMVA Work Form:
2015 - 2020 Lost Revenues Work Form

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2015-2020 period. Please input or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by the IESO in 2017 should be included in the 2016 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless supported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.

4. LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for program savings and its savings adjustments. If a different allocation is proposed for savings adjustments, LDCs must provide supporting rationale in Tab 1-a and highlight the change.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. Please also provide assumptions about the years in which persistence is captured in the load forecast calculation in the "Notes" section below each table.

Tables

Table 5-a 2015 Lost Revenues
Table 5-b 2016 Lost Revenues
Table 5-c 2017 Lost Revenues
Table 5-d 2018 Lost Revenues
Table 5-e 2019 Lost Revenues
Table 5-f 2020 Lost Revenues

Table 5-a. 2015 Lost Revenues Work Form

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)								Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA									Total
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
			kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW															
	Legacy Framework																																					
	Residential Program																																					
1	Coupon Initiative	Verified	4,706,527	4,699,406	4,699,406	4,699,406	4,699,406	4,699,406	4,699,406	4,667,743	4,667,743	4,667,743		303	301	301	301	301	301	301	301	301	301	100.00%														100%
	Adjustment to 2015 savings	True-up	777,831	769,046	769,046	769,046	769,046	769,046	769,046	767,904	767,904	767,904		49	49	49	49	49	49	49	49	49	49	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiative	Verified	5,004,617	4,915,968	4,915,968	4,915,968	4,915,968	4,915,968	4,915,968	4,913,394	4,913,394	4,913,394		338	332	332	332	332	332	332	332	332	332	100.00%														100%
	Adjustment to 2015 savings	True-up	51,769	51,162	51,162	51,162	51,162	51,162	51,162	51,034	51,034	51,034		3	3	3	3	3	3	3	3	3	3	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified	373,322	373,322	373,322	372,278	200,982	0	0	0	0	0		57	57	57	56	32	0	0	0	0	0	100.00%														100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initiative	Verified	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035		2,261	2,261	2,261	2,261	2,261	2,261	2,261	2,261	2,261	2,261	100.00%														100%
	Adjustment to 2015 savings	True-up	137,637	137,637	137,637	137,637	137,637	137,637	137,637	137,637	137,637	137,637		71	71	71	71	71	71	71	71	71	71	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major	Verified	656,805	656,805	656,805	656,805	656,805	656,805	656,805	656,805	656,805	656,805		123	123	123	123	123	123	123	120	123	123	100.00%														100%
	Adjustment to 2015 savings	True-up	207,993	207,993	207,993	207,993	207,993	207,993	207,993	207,993	207,993	207,993		13	13	13	13	13	13	13	13	13	13	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Program																																					
6	Energy Audit Initiative	Verified	3,452,201	3,452,201	3,452,201	3,452,201	0	0	0	0	0	0	12	736	736	736	736	0	0	0	0	0	0		3.00%	62.00%	30.00%	5.00%									100%
	Adjustment to 2015 savings	True-up	1,678,573	1,678,573	1,678,573	1,678,573	5,330,779	5,330,779	5,330,779	5,330,779	5,330,779	5,330,779	12	490	490	490	490	1,174	1,174	1,174	1,174	1,174	1,174	0.00%	3.00%	62.00%	30.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified	30,836,699	30,836,699	30,156,595	30,156,595	30,156,595	30,154,348	29,373,060	29,373,060	28,580,818	25,918,135	12	4,824	4,824	4,619	4,619	4,619	4,618	4,507	4,507	4,307	3,942		11.00%	67.00%	15.00%	7.00%									100%
	Adjustment to 2015 savings	True-up	5,382,554	5,382,554	6,062,657	6,091,243	6,091,243	6,091,243	6,872,530	6,872,530	7,124,394	6,467,336	12	821	821	1,026	1,036	1,036	1,036	1,147	1,147	1,188	1,034	0.00%	11.00%	67.00%	15.00%	7.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified	5,069,195	3,617,310	2,777,250	2,775,365	2,775,365	2,775,365	2,775,214	2,775,214	2,775,214	2,775,214	12	1,169	853	630	629	629	629	629	629	629	629		90.00%	7.00%	3.00%										100%
	Adjustment to 2015 savings	True-up	-2,021,889	-439,803	261,057	481,781	481,781	481,781	481,781	481,836	481,836	481,836	12	-466	-172	52	116	116	116	116	116	116	116	0.00%	90.00%	7.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation Initiative	Verified	328,413	328,413	328,413	328,413	328,413	328,413	328,413	328,413	293,369	293,369	12	52	52	52	52	52	52	52	42	42			100.00%													100%
	Adjustment to 2015 savings	True-up	269,480	269,480	269,480	269,480	269,480	269,480	269,480	269,480	269,480	269,480	12	38	38	38	38	38	38	38	38	38	38	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0			100.00%												100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																					
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0			100.00%												100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0			100.00%												100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified	3,527,753	3,477,653	3,477,653	3,477,653	3,477,653	3,477,653	3,477,653	3,477,653	2,951,442	2,914,969	12	434	433	433	433	433	433	433	433	325	316		18.30%	50.00%	27.60%	4.00%									100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	18.30%	50.00%	27.60%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																																					
14	Low Income Initiative	Verified	3,472,200	3,310,504	3,283,038	3,258,041	3,257,821	3,257,821	3,238,550	3,237,814	2,997,737	2,996,026	12	1,059	1,030	1,029	1,029	1,028	1,028	1,027	1,027	1,014	1,013	100.00%														100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																					
15	Aboriginal Conservation Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilots																																					
17	Conservation Fund Pilot - EnerNOC	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Lobtaws Pilot	Verified	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	12	89	89	89	89	89	89	89	89	89	89			100.00%												100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																																					
	Residential Province-Wide Programs																																					
21	Save on Energy Coupon Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Programs																																					
25	Save on Energy Audit Funding Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Save on Energy Retrofit Program	Verified	1,541,118	1,541,118	1,524,334	1,524,334	1,524,334	1,523,832	1,464,713	1,464,713	1,449,370	1,252,371	12	190	190	185	185	186	184	175	175	173	142		15.00%	45.00%	7.00%	33.00%									100%
	Adjustment to 2015 savings	True-up	10,130,140	11,187,159	11,055,688	7,298,819	7,298,819	7,278,048	7,237,156	7,237,156	7,135,871	6,739,890	12	968	968	974	949	949	927	937	937	902	825	0.00%	15.00%	45.00%	7.00%	33.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0		100.00%													100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New Construction Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0			100.00%												100%
	Adjustment to 2015 savings	True-up	84,008	84,008	84,008	84,008	84,008	0	0	0	0	0	12	12	12	12	12	12	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building Commissioning Program	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0															0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

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Table 5-b. 2016 Lost Revenues Work Form (Back to Top)

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAM/VA									
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Residential	GS<50 kW	GS 50 TO 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
	Vintage Framework)		kWh											kW										kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	0	
	Residential Program																																		
1	Coupon Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%														100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%														100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%														100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%														100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major Renovation Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%														100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Progra																																		
6	Energy Audit Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																		
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																																		
14	Low Income Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																		
15	Aboriginal Conservation Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilot)																																		
17	Conservation Fund Pilot - EnerNOC	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Lobleex Pilot	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework)																																		
	Residential Province-Wide Program																																		
21	Save on Energy Coupon Program	Verified	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,037,829	25,037,829	25,037,658		1,666	1,666	1,666	1,666	1,666	1,666	1,666	1,666	1,666	1,659	100.00%														100%
	Adjustment to 2016 savings	True-up	3,013,527	3,013,572	3,013,527	3,013,527	3,013,527	3,013,527	3,013,527	3,012,980	3,012,989	3,016,579		191	191	191	191	191	191	191	191	191	192	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling Incentive	Verified	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966		1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,424	100.00%														100%
	Adjustment to 2016 savings	True-up	54,937	54,937	54,937	54,937	52,333	52,333	52,333	52,333	52,333	52,333		15	15	15	15	15	15	15	15	15	15	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%														100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%														100%
	Adjustment to 2016 savings	True-up	1,256,576	1,255,576	1,255,576	1,255,576	1,256,571	1,256,815	1,256,815	1,256,815	1,256,815	1,076,723		98	98	98	98	98	97	97	97	97	74	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Program																																		
25	Save on Energy Audit Funding Program	Verified	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	12	27	27	27	27	27	27	27	27	27	27			100.00%												100%
	Adjustment to 2016 savings	True-up	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	12	21	21	21	21	21	21	21	21	21	21	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Save on Energy Retrofit Program	Verified	28,358,787	27,721,696	27,721,696	27,668,755	27,668,755	27,663,415	27,663,415	27,663,415	27,663,415	26,861,972	12	3,992	3,899	3,899	3,899	3,899	3,784	3,784	3,784	3,779	3,779			100.00%												100%
	Adjustment to 2016 savings	True-up	21,925,833	22,566,376	22,566,493	22,665,409	21,514,633	21,279,855	21,279,855	21,279,855	21,279,855	21,126,467	12	3,340	3,093	3,073	3,077	3,718	2,685	2,685	2,685	2,683	2,683	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0		100.00%													100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New Construction Program	Verified	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	12	94	94	94	94	94	94	94	94	94	94			100.00%												100%
	Adjustment to 2016 savings	True-up	814,783	814,783	814,783	814,783	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	12	272	272	272	272	22	22	22	22	22	22	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building Commissioning Program	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0			100.00%												100%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	Save on Energy Process & Systems Upgrades Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0			100.00%												100%
	Adjustment to 2016 savings	True-up	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	12	472	472	472	472	472	472	472	472	472	472	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	Save on Energy Monitoring & Targeting Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Save on Energy Energy Manager Program	Verified	283,145	283,145	283,145	283,145	283,145	203,870	203,870	203,870	203,870	203,870	12	27	27	27	27	27	18	18	18	18	18			100.00%												100%
	Adjustment to 2016 savings	True-up	339,655	339,655	339,655	338,820	338,820	259,545	259,545	259,545	259,545	259,545	12	19	19	19	19	19	10	10	10	10	10	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Local & Regional Program																																		
33	Business Refrigeration Local Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	First Nation Conservation Local Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	Social Benchmarking Local Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pilot Programs																																		
36	Enersource Hydro Mississauga Inc. - Performance-Based Conservation Pilot Program - Conservation Fund	Verified											12																								0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37	EnWin Utilities Ltd. - Building Optimization Pilot	Verified											12																								0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
38	EnWin Utilities Ltd. - Re-Invest Pilo	Verified											12																								0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified											12																								0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40	Horizon Utilities Corporation - Social Benchmarking Pilot	Verified											12																								0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0														0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

	Program		Actual CDM Savings in 2011										Monthly Multiplier	Actual CDM Savings (kW)										Rate Allocations for LRAMVA								
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Residential	GS<50 kW	GS 50 TO 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting	Total
			kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kWh	kWh	kW	kW	kW	kWh	kW	
40	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified											12																		0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
46	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified											12																		0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
47	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified											12																		0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
48	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified											12																		0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
49	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings	Verified											12																		0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
50	Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified											12																		0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
51	Toronto Hydro-Electric System Limited - PFP - Large (Pilot Savings)	Verified											12																		0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2011		**91,920,793**											**11,273**										**34,665,821**	**0**	**94,552**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2011																							**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Distribution Rate in 2016																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2016 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2013 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2014 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2015 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2016 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Total Lost Revenues in 2016																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
	Forecast Lost Revenues in 2016																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
	LRAMVA in 2016																														**$0.00**
	2016 Savings Persisting in 2017																							34,665,821	0	94,725	0	0	0	0	
	2016 Savings Persisting in 2018																							34,665,821	0	94,845	0	0	0	0	
	2016 Savings Persisting in 2019																							34,665,821	0	94,773	0	0	0	0	
	2016 Savings Persisting in 2020																							34,665,212	0	87,468	0	0	0	0	

Note: LDC to make note of key assumptions included above

Table 5-c. 2017 Lost Revenues Work Form (Select one)

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA								
			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Residential	GS<50 kW	GS 50 TO 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting	Total
			kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kWh	kWh	kW	kW	kW	kWh	kW	
	Legacy Framework																															
	Residential Program																															
2	Coupon Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Bi-Annual Retailer Event Initiativ	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Appliance Retirement Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	HVAC Incentives Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Residential New Construction and Major Renovation Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Prograr																															
8	Energy Audit Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Direct Install Lighting and Water Heating Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																															
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																															
14	Low Income Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																															
15	Aboriginal Conservation Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilots																															
17	Conservation Fund Pilot - EnerNOC	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Loblaws Pilot	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0								0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																															
	Residential Province-Wide Program																															
64	Save on Energy Coupon Program	Verified	32,052,939	26,217,487	26,217,487	26,217,487	26,217,487	26,217,487	26,217,487	26,217,487	26,216,943	26,216,943	35,155,789		3,209	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,827	100.00%							100%
	Adjustment to 2017 savings	True-up	34,981	31,356	31,356	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
65	Save on Energy Heating and Cooling Program	Verified	5,227,110	5,227,110	5,227,110	5,227,110	5,227,110	5,227,110	5,227,110	5,227,110	5,227,110	5,227,110			1,453	1,453	1,453	1,453	1,453	1,453	1,453	1,453	1,453	1,453	100.00%							100%
	Adjustment to 2017 savings	True-up	898,832	898,832	898,832	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
66	Save on Energy New Construction Program	Verified	11,429	11,429	11,429	11,429	11,429	11,429	11,429	11,429	11,429	11,429			6	6	6	6	6	6	6	6	6	6	100.00%							100%
	Adjustment to 2017 savings	True-up	6,055	6,055	6,055	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
67	Save on Energy Home Assistance Program	Verified	903,720	903,720	903,720	903,720	903,720	903,720	903,720	903,720	903,720	903,048			64	64	64	64	64	64	64	64	64	64	100.00%							100%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Program																															
68	Save on Energy Audit Funding Program	Verified	2,417,346	2,417,346	2,417,346	2,417,346	2,417,346	2,417,346	2,417,346	2,417,346	2,417,346	2,067,814	12	107	107	107	107	107	107	107	107	107	93			100.00%						100%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	
69	Save on Energy Retrofit Program	Verified	47,629,973	47,681,132	47,681,132	47,681,132	43,264,829	43,264,829	43,264,829	42,809,036	42,809,036		12	7,464	7,537	7,537	7,537	7,537	6,526	6,526	6,526	6,519	6,519			100.00%						100%
	Adjustment to 2017 savings	True-up	16,891,576	16,891,576	16,891,576	0	0	0	0	0	0	0	12	1,641	1,657	1,657	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	
70	Save on Energy Small Business Lighting Program	Verified	442,365	442,365	439,231	406,812	347,277	309,657	266,533	193,812	109,896	71,173	12	85	85	85	82	75	69	62	47	28	18		100.00%							100%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

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Table 5-e. 2019 Lost Revenues Work Form [Return to top]

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA									Total
		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
Legacy Framework																							kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
Actual CDM Savings in 2019		0											0										0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2019			0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2019																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2019 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2013 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2014 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2015 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2016 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2017 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2018 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2019 from 2019 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Lost Revenues in 2019																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Forecast Lost Revenues in 2019																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
LRAMVA in 2019																																					**$0.00**
2019 Savings Persisting in 2020			0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of key assumptions included above

Table 5-f. 2020 Lost Revenues Work Form [Return to top]

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA									Total
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
Legacy Framework																							kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
Actual CDM Savings in 2020		0											0										0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2020			0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2020																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2020 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2013 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2014 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2015 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2016 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2017 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2018 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2019 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2020 from 2020 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Lost Revenues in 2020																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Forecast Lost Revenues in 2020																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
LRAMVA in 2020																																					**$0.00**

Note: LDC to make note of key assumptions included above

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Ontario Energy Board

LRAMVA Work Form:
Carrying Charges by Rate Class

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. Monthly interest rates are used to calculate the variance on the carrying charges for LRAMVA. Starting from column I, the principal will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rate from column H to determine the monthly variances on carrying charges for each rate class by year.

2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

3. Please calculate the projected interest amounts in the LRAMVA work form. Project carrying charges amounts incuded in Table 6-a should be consistent with the projected interest amounts included in the DVA Continuity Schedule. **If there are additional adjustments required to the formulas to calculate the projected interest amounts, please adjust the formulas in Table 6-a accordingly.**

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.50%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	2.17%
2019 Q1	2.45%
2019 Q2	2.18%
2019 Q3	2.18%
2019 Q4	2.18%
2020 Q1	2.18%
2020 Q2	2.18%
2020 Q3	2.18%
2020 Q4	2.18%

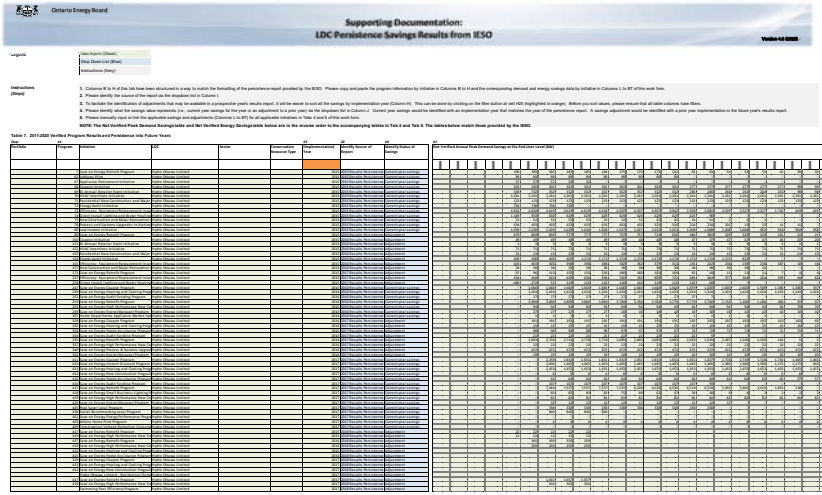
Check OEB website

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																		
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																		
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																		
Opening Balance for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**

Amount Cleared																		
Opening Balance for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-15	2011-2015	Q1	0.12%	$47.15	$19.77	$23.89	$6.02	$3.46	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$100.29
Mar-15	2011-2015	Q1	0.12%	$94.31	$39.53	$47.78	$12.04	$8.91	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$200.57
Apr-15	2011-2015	Q2	0.09%	$105.86	$44.38	$53.63	$13.52	$7.76	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$225.13
May-15	2011-2015	Q2	0.09%	$141.14	$59.17	$71.50	$18.02	$10.34	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$300.18
Jun-15	2011-2015	Q2	0.09%	$176.43	$73.96	$89.38	$22.53	$12.93	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$375.22
Jul-15	2011-2015	Q3	0.09%	$211.71	$88.75	$107.25	$27.03	$15.52	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$450.27
Aug-15	2011-2015	Q3	0.09%	$247.00	$103.54	$125.13	$31.54	$18.10	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$525.31
Sep-15	2011-2015	Q3	0.09%	$282.28	$118.33	$143.01	$36.04	$20.69	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$600.36
Oct-15	2011-2015	Q4	0.09%	$317.57	$133.13	$160.88	$40.55	$23.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$675.40
Nov-15	2011-2015	Q4	0.09%	$352.85	$147.92	$178.76	$45.05	$25.86	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$750.45
Dec-15	2011-2015	Q4	0.09%	$388.14	$162.71	$196.63	$49.56	$28.45	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$825.49
Total for 2015				**$2,364.45**	**$991.18**	**$1,197.84**	**$301.91**	**$173.30**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$5,028.67**
Amount Cleared																		
Opening Balance for 2016				**$2,364.45**	**$991.18**	**$1,197.84**	**$301.91**	**$173.30**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$5,028.67**
Jan-16	2011-2016	Q1	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Feb-16	2011-2016	Q1	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Mar-16	2011-2016	Q1	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Apr-16	2011-2016	Q2	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
May-16	2011-2016	Q2	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Jun-16	2011-2016	Q2	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Jul-16	2011-2016	Q3	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Aug-16	2011-2016	Q3	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Sep-16	2011-2016	Q3	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Oct-16	2011-2016	Q4	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Nov-16	2011-2016	Q4	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Dec-16	2011-2016	Q4	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Total for 2016				**$7,445.56**	**$3,121.18**	**$3,771.94**	**$950.70**	**$545.70**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$15,835.08**
Amount Cleared																		
Opening Balance for 2017				**$7,445.56**	**$3,121.18**	**$3,771.94**	**$950.70**	**$545.70**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$15,835.08**
Jan-17	2011-2017	Q1	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Feb-17	2011-2017	Q1	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Mar-17	2011-2017	Q1	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Apr-17	2011-2017	Q2	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
May-17	2011-2017	Q2	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Jun-17	2011-2017	Q2	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Jul-17	2011-2017	Q3	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Aug-17	2011-2017	Q3	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Sep-17	2011-2017	Q3	0.09%	$423.43	$177.50	$214.51	$54.07	$31.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$900.53
Oct-17	2011-2017	Q4	0.13%	$577.40	$242.05	$292.51	$73.73	$42.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,228.00
Nov-17	2011-2017	Q4	0.13%	$577.40	$242.05	$292.51	$73.73	$42.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,228.00
Dec-17	2011-2017	Q4	0.13%	$577.40	$242.05	$292.51	$73.73	$42.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,228.00
Total for 2017				**$12,988.59**	**$5,444.82**	**$6,580.06**	**$1,658.47**	**$951.96**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$27,623.90**
Amount Cleared																		
Opening Balance for 2018				**$12,988.59**	**$5,444.82**	**$6,580.06**	**$1,658.47**	**$951.96**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$27,623.90**
Jan-18	2011-2018	Q1	0.13%	$577.40	$242.05	$292.51	$73.73	$42.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,228.00
Feb-18	2011-2018	Q1	0.13%	$577.40	$242.05	$292.51	$73.73	$42.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,228.00
Mar-18	2011-2018	Q1	0.13%	$577.40	$242.05	$292.51	$73.73	$42.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,228.00
Apr-18	2011-2018	Q2	0.16%	$727.52	$304.98	$368.57	$92.89	$53.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,547.28
May-18	2011-2018	Q2	0.16%	$727.52	$304.98	$368.57	$92.89	$53.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,547.28
Jun-18	2011-2018	Q2	0.16%	$727.52	$304.98	$368.57	$92.89	$53.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,547.28
Jul-18	2011-2018	Q3	0.16%	$727.52	$304.98	$368.57	$92.89	$53.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,547.28
Aug-18	2011-2018	Q3	0.16%	$727.52	$304.98	$368.57	$92.89	$53.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,547.28
Sep-18	2011-2018	Q3	0.16%	$727.52	$304.98	$368.57	$92.89	$53.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,547.28
Oct-18	2011-2018	Q4	0.18%	$835.30	$350.16	$423.17	$106.66	$61.22	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,776.51
Nov-18	2011-2018	Q4	0.18%	$835.30	$350.16	$423.17	$106.66	$61.22	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,776.51
Dec-18	2011-2018	Q4	0.18%	$835.30	$350.16	$423.17	$106.66	$61.22	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,776.51
Total for 2018				**$21,591.83**	**$9,051.29**	**$10,938.49**	**$2,756.99**	**$1,582.51**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$45,921.12**
Amount Cleared																		
Opening Balance for 2019				**$21,591.83**	**$9,051.29**	**$10,938.49**	**$2,756.99**	**$1,582.51**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$45,921.12**
Jan-19	2011-2019	Q1	0.20%	$943.08	$395.34	$477.77	$120.42	$69.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,005.74
Feb-19	2011-2019	Q1	0.20%	$943.08	$395.34	$477.77	$120.42	$69.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,005.74
Mar-19	2011-2019	Q1	0.20%	$943.08	$395.34	$477.77	$120.42	$69.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,005.74
Apr-19	2011-2019	Q2	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
May-19	2011-2019	Q2	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Jun-19	2011-2019	Q2	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Jul-19	2011-2019	Q3	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Aug-19	2011-2019	Q3	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Sep-19	2011-2019	Q3	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Oct-19	2011-2019	Q4	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Nov-19	2011-2019	Q4	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Dec-19	2011-2019	Q4	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Total for 2019				**$31,973.47**	**$13,403.27**	**$16,197.86**	**$4,082.58**	**$2,343.40**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$68,000.59**
Amount Cleared																		
Opening Balance for 2020				**$31,973.47**	**$13,403.27**	**$16,197.86**	**$4,082.58**	**$2,343.40**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$68,000.59**
Jan-20	2011-2020	Q1	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Feb-20	2011-2020	Q1	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Mar-20	2011-2020	Q1	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Apr-20	2011-2020	Q2	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
May-20	2011-2020	Q2	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Jun-20	2011-2020	Q2	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Jul-20	2011-2020	Q3	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Aug-20	2011-2020	Q3	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Sep-20	2011-2020	Q3	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Oct-20	2011-2020	Q4	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Nov-20	2011-2020	Q4	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Dec-20	2011-2020	Q4	0.18%	$839.15	$351.77	$425.12	$107.15	$61.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,784.70
Total for 2020				**$42,043.31**	**$17,624.55**	**$21,299.27**	**$5,368.37**	**$3,081.44**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$89,416.93**
Amount Cleared																		



Ontario Energy Board

Supporting Documentation:
LDC Persistence Savings Results from IESO

Yellow-id 2020

Legend:

User Inputs (Green)
Drop Down List (Blue)
Instructions (Grey)

Instructions (Steps):

1. Columns B to H of this tab have been structured in a way to match the formatting of the persistence report provided by the IESO. Please copy and paste the program information by initiative in Columns B to H and the corresponding demand and energy savings data by initiative in Columns L to BT of this work form.
2. Please identify the source of the report as the dropdown list in Column I.
3. To facilitate the identification of adjustments that may be available in a prospective year's results report, it will be easier to sort all the savings by implementation year (Column H). This can be done by clicking on the filter button at cell H29 (highlighted in orange). Before you sort values, please ensure that all table columns have filters.
4. Please identify what the savings value represents (i.e., current year savings for the year or an adjustment to a prior year) via the dropdown list in Column J. Current year savings would be identified with an implementation year that matches the year of the persistence report. A savings adjustment would be identified with a prior year implementation in the future year's results report.
5. Please manually input or link the applicable savings and adjustments (Columns L to BT) for all applicable initiatives in Table 4 and 6 of this work form.

NOTE: The Net Verified Peak Demand Savings table and Net Verified Energy Savings table below are in the reverse order to the accompanying tables in Tab 6 and Tab 8. The tables below match those provided by the IESO.

Table 7. 2011-2020 Verified Program Results and Persistence into Future Years

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	Implementation Year	Monthly Name of Report	Monthly Status of Savings	

(k) Net Verified Annual Peak Demand Savings at the End User Level [kW]

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ontario Energy Board

LRAMVA Work Form:
Documentation for Streetlighting Projects

Version 4.0 (2020)

Legend User Inputs (Green)

Instructions

Please provide documentation and/or data to substantiate program savings that were not provided in the IESO's verified results reports (i.e., streetlighting projects).

Distributors are encouraged to provide data in the following format, and complete a separate set of following tables for each project. The tables below are meant to be an example. Distributors should complete the tables based on the actual project details. Please create the necessary links to Tab 4/5 and tabulations within this LRAMVA workform to calculate the LRAMVA amounts. Alternatively, LDCs may submit a separate attachment with the project level details for billed demand by type of bulb.

Table 8-a: Name of Muncipality

Summary of Project #1

Actual lost revenue based on kW billing				
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	a	b	c	b * c
Jan 20xx	0.00			
Feb 20xx	0.00	0.00		0
Mar 20xx				
Apr 20xx				
May 20xx				
June 20xx				
Jul 20xx				
Aug 20xx				
Sep 20xx				
Oct 20xx				
Nov 20xx				
Dec 20xx				
Total				**0**
Persistence in 20XX				
Persistence in 20XX				
Persistence in 20XX				
Persistence in 20XX				

Details of Project #1 (Month, Year)

Pre-conversion billing demand

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d	e	d * e
			0

Ontario Energy Board

Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 4.0 (2020)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	**Tables 1-a and 1-b** provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	**Tables A-1 and A-2** include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	**Tables 2-a, 2-b and 2-c** include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	**Tables 3-a and 3-b** include the distribution rates that are used to calculate lost revenues.
3-a. Rate Class Allocations	A blank spreadsheet is provided to allow LDCs to populate distributor specific rate class percentages to allocate actual CDM savings to different customer classes.
4. 2011-2014 LRAM	**Tables 4-a, 4-b, 4-c and 4-d** include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	**Tables 5-a, 5-b, 5-c and 5-d** include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	**Table 6-b** includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Report	A blank spreadsheet is provided to allow LDCs to populate with CDM savings persistence data provided by the IESO.
8. Streetlighting	A blank spreadsheet is provided to allow LDCs to populate data on streetlighting projects whose savings were not provided by the IESO in the CDM Final Results Report (i.e., streetlighting projects).

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

LRAMVA Work Form: Instructions

Version 4.0 (2020)

Tab	Instructions
LRAMVA Checklist/Schematic Tab	The LRAMVA work form was created in a generic manner for use by all LDCs. There are some elements that are not applicable at this time (i.e. 2019 and 2020 related components) but have been included in an effort to avoid major updates in the future. Distributors should follow the checklist, which is referenced in this tab of the work form and listed below: o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a. o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form. o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved. o Include a copy of initiative-level persistence savings information that was verified by the IESO. Persistence information is available upon request from the IESO. o Apply the IESO verified savings adjustments to the year it relates to. For example, savings adjustments to 2015 programs will be provided to LDCs with the 2016 Final Results Report. The 2015 savings adjustments should be included in the 2015 verified savings portion of the work form. o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable. o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a.
Tab 1. LRAMVA Summary	Distributors are required to report any past approved LRAMVA amounts along with the current LRAMVA amount requested for approval. There are separate tables indicating new lost revenues and carrying charges amounts by year and the totals for rate rider calculations.
Tab 1-a. Summary of Changes	Distributors should list all significant changes and changes in assumptions in the generic work form affecting the LRAMVA.
Tab 2. LRAMVA Threshold	Distributors should use the tables to display the LRAMVA threshold amounts as approved at a rate class level. This should be taken from the LDC's most recently approved cost of service application.
Tab 3. Distribution Rates	Distributors should complete the tables with rate class specific distribution rates and adjustments as applicable.
Tab 3-a. Rate Class Allocations	A tab is provided to allow LDCs to include documentation or analysis on how rate class allocations for actual CDM savings were determined by customer class and program each year. The rate class allocations would support the LRAMVA rate class allocation figures used in Tabs 4 and 5.
Tabs 4 and 5 (2011-2020)	Distributors should complete the lost revenue calculation for 2011-2014 program years and 2015-2020 program years, as applicable, by undertaking the following: o Input or manually link the savings, adjustments and program savings persistence data from Tab 7 (Persistence Report) to Tabs 4 and 5. As noted earlier, persistence data is available upon request from the IESO. o Ensure that the IESO verified savings adjustments apply to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. o Confirm the monthly multipliers applied to demand savings. If a different monthly multiplier is used than what was confirmed in the LRAMVA Report, provide rationale in Tab 1-a and highlight the new monthly multiplier that has been used. o Input the rate class allocations by program and year to allocate actual savings to customers. If a different allocation is proposed for adjustments, LDCs must provide the supporting rationale in Tab 1-a and highlight the change. o Provide assumptions about the year(s) in which persistence is captured in the load forecast via the "Notes" section of each table and adjust what is included in the LRAMVA totals, as appropriate.
Tab 6. Carrying Charges	Distributors are requested to calculate carrying charges based on the methodology provided in the work form. This includes updating Table 6 as new prescribed interest rates for deferral and variance accounts become available and entering any collected interest amounts into the "Amounts Cleared" row to calculate outstanding variances on carrying charges.
Tab 7. Persistence Report	Persistence savings report(s) provided by the IESO should be included for the relevant years in the LRAMVA work form. Tab 7 has been created consistently with the IESO's persistence report.
Tab 8. Streetlighting	A tab is provided to ensure LDCs include documentation or data to support projects whose program savings were not provided by the IESO (i.e., streetlighting projects).

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LRAMVA Work Form: Checklist and Schematic

Version 4.0 (2020)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA ($) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Legend

Drop Down List (Blue)

Important Checklist

	o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a
	o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form
	o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved
	o Include a copy of initiative-level persistence savings information that was verified by the IESO in Tab 7. Persistence information is available upon request from the IESO
	o Apply the IESO verified savings adjustments to the year it relates to.
	o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable
	o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	Determined by the LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA ($) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges ($) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA ($) by Rate Class	Tab "1. LRAMVA Summary"			

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LRAMVA Work Form: Summary Tab

Version 4.0 (2020)

Legend

User Inputs (Green)	
Auto Populated Cells (White)	
Instructions (Grey)	

LDC Name: Hydro Ottawa Limited

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2015-0004
Application of Previous LRAMVA Claim	2016 COS/IRM Application
Period of LRAMVA Claimed in Previous Application	2011-2013
Amount of LRAMVA Claimed in Previous Application	-$ 687,335.50

B. Current LRAMVA Application

Current LRAMVA Application (EB#)	EB-2019-0261
Application of Current LRAMVA Claim	2021-2025 CIR
Period of New LRAMVA in this Application	2014-2016
Period of Rate Recovery (# years)	2

Actual Lost Revenues ($)	A	$ 2,107,598
Forecast Lost Revenues ($)	B	$ 1,334,272
Carrying Charges ($)	C	$ 61,821
LRAMVA ($) for Account 1568	A-B+C	$ 835,147

C. Documentation of Changes

Original Amount	
Amount for Final Disposition	

Table 1-a. LRAMVA Totals by Rate Class

Please input the customer rate classes applicable to the LDC and associated billing units (kWh or kW) in Table 1-a below. This will update all tables throughout the workform.

The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. Please also ensure that the principal amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim. Column F of Table 1-a should include projected carrying charges amounts as determined on a rate class basis from Table 1-b below.

NOTE: If the LDC has more than 14 customer classes in which CDM savings was allocated, LDCs must contact OEB staff to make adjustments to the workform.

Customer Class	Billing Unit	Principal ($)	Carrying Charges ($)	Total LRAMVA ($)
Residential	kWh	$725,450	$57,994	$783,443
GS<50 kW	kWh	$137,640	$11,003	$148,643
GS 50 TO 1,499 KW	kW	-$317,598	-$25,389	-$342,987
GS 1,500 TO 4,999	kW	$84,284	$6,738	$91,021
Large User	kW	$131,249	$10,492	$141,742
Unmetered Scattered Load	kWh	$0	$0	$0
Street Lighting	kW	$12,302	$983	$13,285
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
Total		$773,326	$61,821	$835,147

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please insert a 'check mark' to indicate the years in which LRAMVA has been claimed. If you inserted a check-mark for a particular year, please delete the amounts associated with the actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any LRAMVA from a prior year that has already been claimed cannot be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

LDCs are expected to include projected carrying charges amounts in row 84 of Table 1-b below. LDCs should also check accuracy of the years included in the LRAMVA balance in row 85.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
		kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
2011 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2011 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2012 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2012 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2013 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2013 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2014 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2014 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2015 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2015 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2016 Actuals		$1,048,242.30	$369,342.79	$462,178.20	$84,283.64	$131,249.42	$0.00	$12,301.76	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,107,598.11
2016 Forecast	☐	($322,792.50)	($231,703.20)	($779,776.35)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,334,272.05)
Amount Cleared																
2017 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2017 Forecast	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2018 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2018 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
Carrying Charges		$57,993.67	$11,003.14	($25,389.32)	$6,737.77	$10,492.30	$0.00	$983.42	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$61,820.97
Total LRAMVA Balance		**$783,443**	**$148,643**	**-$342,987**	**$91,021**	**$141,742**	**$0**	**$13,285**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$835,147**

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Summary of Changes

Version 4.0 (2020)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Instructions (Grey)

Table A-1. Changes to Generic Assumptions in LRAMVA Work Form

Please document any changes in assumptions made to the generic inputs of the LRAMVA work form. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between current year savings and prior year savings adjustments; inclusion of additional adjustments affecting distribution rates; etc. All changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	7. Persistence Data	Column D	Change program name from persistence report to match tables on Tab 5. - Loblaw P4P	To have look-up work from Tab 5. to Tab 7.
2	7. Persistence Data	Column D	Changed Save on Energy Heating & Cooling Program to Save on Energy Heating and	To have look-up work from Tab 5. to Tab 7.
3	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 36 with Save on Energy Instant Discount Program	Program missing
4	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 37 with Home Depot Home Appliance Market Uplift	Program missing
5	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 43 with Swimming Pool Efficiency Program	Program missing
6	5. 2015-2020 LRAM	Column B	On Tab 5, replaced item 43 with Street Lighting	to bring the Street Lighting savings in
7				
8				
9				
10				
etc.				

Table A-2. Updates to LRAMVA Disposition

Please document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
etc.				

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LRAMVA Work Form: Forecast Lost Revenues

Version 4.0 (2020)

Legend

User Inputs (Green)
Drop Down List (Blue)
Auto Populated Cells (White)
Instructions (Grey)

Table 2-a. LRAMVA Threshold 2016

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	27,452,000	16,725,000	10,727,000													
kW	191,563			191,563												
Summary		16725000	10727000	191563	0	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold: 2016

Source of Threshold: 2016-2020 Settlement Agreement, p. 57 & 58

Table 2-b. LRAMVA Threshold

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	0															
kW	0															
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold

Source of Threshold

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
		kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	2016	16,725,000	10,727,000	191,563	0	0	0	0	0	0	0	0	0	0	0	0
2017		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Correct demand values shown as CDM saving in Settlement Chart

Ontario Energy Board

LRAMVA Work Form: Distribution Rates

Version 4.0 (2020)

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

Please complete Table 3 with the rate class specific distribution rates that pertain to the years of the LRAMVA disposition. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months entered in row 16 of each rate year starting from January to the start of the LDC's rate year. Please enter 0 in row 16, if the rate year begins on January 1. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas in Table 3-a accordingly.

	Billing Unit	EB-2009-XXXX	EB-2010-XXXX	EB-2011-XXXX	EB-2012-XXXX	EB-2013-XXXX	EB-2014-0085	EB-2015-0004	EB-2016-0084	EB-2017-XXXX	EB-2018-XXXX	EB-2019-XXXX	EB-2020-XXXX
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)													
Period 2 (# months)		*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*
Residential								$ 0.0193					
Rate rider for tax sharing	kWh												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ 0.0193	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	**$ 0.0193**	$ -	$ -	$ -	$ -	
GS<50 kW								$ 0.0216					
Rate rider for tax sharing	kWh												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ 0.0216	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	**$ 0.0216**	$ -	$ -	$ -	$ -	
GS 50 TO 1,499 KW								$ 4.0706					
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ 4.0706	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	**$ 4.0706**	$ -	$ -	$ -	$ -	
GS 1,500 TO 4,999								$ 3.6541					
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ 3.6541	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	**$ 3.6541**	$ -	$ -	$ -	$ -	
Large User								$ 3.4742					
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ 3.4742	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	**$ 3.4742**	$ -	$ -	$ -	$ -	
Unmetered Scattered Load								$ 0.0219					
Rate rider for tax sharing	kWh												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ 0.0219	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	**$ 0.0219**	$ -	$ -	$ -	$ -	
Street Lighting								$ 5.3171					
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ 5.3171	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	**$ 5.3171**	$ -	$ -	$ -	$ -	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Rate rider for tax sharing	0												
Rate rider for foregone revenue													
Other													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	

Note: LDC to make note of adjustments made to Table 3 to accommodate the LDC's specific circumstances

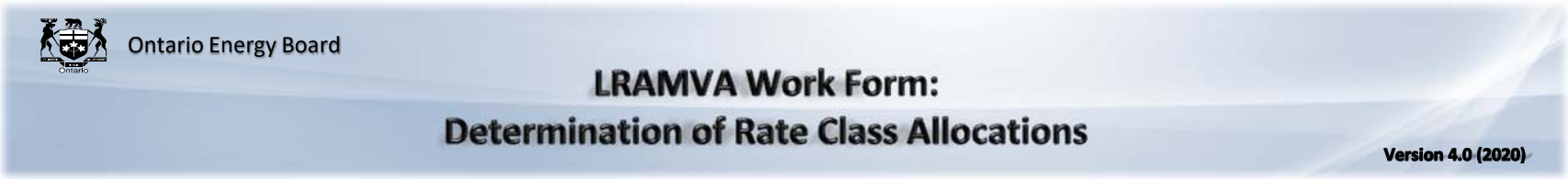
Table 3-a. Distribution Rates by Rate Class

Table 3-a below autopopulates the average distribution rates from Table 3. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used. **Please clear the rates related to the year(s) that are not part of the LRAMVA claim.**

The distribution rates that remain in Table 3-a will be used in Tabs 4 and 5 of the work form to calculate actual and forecast lost revenues. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas from Table 3-a, as well as the distribution rate links in Tabs 4 and 5.

Year	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							
	kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0
2011	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2012	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2013	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2014	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2015	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2016	$0.0193	$0.0216	$4.0706	$3.6541	$3.4742	$0.0219	$5.3171	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2017	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2018	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000

Note: LDC to make note of the years removed from this table, whose distribution rates are not part of the LRAMVA disposition



Instructions

LDCs must clearly show how it has allocated actual CDM savings to applicable rate classes, including supporting documentation and rationale for its proposal. This should be shown by customer class and program each year.

This information is provided in UPDATED Exhibit 4-5-2: LRAM Variance Account

Ontario Energy Board

LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Version 4.0 (2020)

Legend

- User Inputs (Green)
- Auto Populated Cells (White)
- Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2011-2014 period. Please input or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.

4. LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for program savings and its savings adjustments. If a different allocation is proposed for savings adjustments, LDCs must provide supporting rationale in Tab 1-a and highlight the change.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. Please also provide assumptions about the years in which persistence is captured in the load forecast calculation in the "Notes" section below each table.

Tables

Table 4-a. 2011 Lost Revenues
Table 4-b. 2012 Lost Revenues
Table 4-c. 2013 Lost Revenues
Table 4-d. 2014 Lost Revenues

Table 4-a. 2011 Lost Revenues Work Form

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)								Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA													
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Residential	GS<50 kW	GS 50 TO 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting							Total
			kWh										kW											kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
	Consumer Program																																				
1	Appliance Retirement	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
2	Appliance Exchange	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
3	HVAC Incentives	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
4	Conservation Instant Coupon Booklet	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
5	Bi-Annual Retailer Event	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
6	Retailer Co-op	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
7	Residential Demand Response	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
8	Residential Demand Response (IHD)	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
9	Residential New Construction	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
	Business Program																																				
10	Retrofit	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
11	Direct Install Lighting	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
12	Building Commissioning	Verified											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
13	New Construction	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
14	Energy Audit	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
15	Small Commercial Demand Response	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
16	Small Commercial Demand Response (IHD)	Verified																																			0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
17	Demand Response 3	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
	Industrial Program																																				
18	Process & System Upgrades	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
19	Monitoring & Targeting	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
20	Energy Manager	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
21	Retrofit	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
22	Demand Response 3	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
	Home Assistance Program																																				
23	Home Assistance Program	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
	Aboriginal Program																																				
24	Home Assistance Program	Verified																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
25	Direct Install Lighting	Verified											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
	Pre-2011 Programs completed in 2011																																				
26	Electricity Retrofit Incentive Program	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
27	High Performance New Construction	Verified											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
28	Toronto Comprehensive	Verified											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
29	Multifamily Energy Efficiency Rebates	Verified											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
30	LDC Custom Programs	Verified											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
	Other																																				
31	Program Enabled Savings	Verified											0																								0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							
32	Time of Use Savings	Verified											0																								0%

| | | |

2012 Savings Persisting in 2019																																	
2012 Savings Persisting in 2020																																	

Note: LDC to make note of key assumptions included above

Table 4-c. 2013 Lost Revenues Work Form (pasted link)

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA								
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
	Consumer Program																							kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
1	Appliance Retirement	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
2	Appliance Exchange	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
3	HVAC Incentives	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
4	Conservation Instant Coupon Booklet	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
5	Bi-Annual Retailer Event	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
6	Retailer Co-op	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
7	Residential Demand Response	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
8	Residential Demand Response (IHD)	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
9	Residential New Construction	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
	Business Program																																		
10	Retrofit	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
11	Direct Install Lighting	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
12	Building Commissioning	Verified											3																						0%
	Adjustment to 2013 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
13	New Construction	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
14	Energy Audit	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
15	Small Commercial Demand Response	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
16	Small Commercial Demand Response (IHD)	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
17	Demand Response 3	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
	Industrial Program																																		
18	Process & System Upgrades	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
19	Monitoring & Targeting	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
20	Energy Manager	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
21	Retrofit	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
22	Demand Response 3	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
	Home Assistance Program																																		
23	Home Assistance Program	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
	Aboriginal Program																																		
24	Home Assistance Program	Verified																																	0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
25	Direct Install Lighting	Verified											0																						0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
	Pre-2011 Programs completed in 2011																																		
26	Electricity Retrofit Incentive Program	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
27	High Performance New Construction	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
28	Toronto Comprehensive	Verified											0																						0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
29	Multifamily Energy Efficiency Rebates	Verified											0																						0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
30	LDC Custom Programs	Verified											0																						0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
	Other																																		
31	Program Enabled Savings	Verified											0																						0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
32	Time of Use Savings	Verified											0																						0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
33	LDC Pilots	Verified											12																						0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
	Actual CDM Savings in 2013		0											0										0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Forecast CDM Savings in 2013																							0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Distribution Rate in 2013																								$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2013 from 2011 programs																								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2013 from 2012 programs																								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2013 from 2013 programs																								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Lost Revenues in 2013																								**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Forecast Lost Revenues in 2013																								**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
LRAMVA in 2013																																	**$0.00**
2013 Savings Persisting in 2014																								0	0	0	0	0	0	0	0	0	0					
2013 Savings Persisting in 2015																								0	0	0	0	0	0	0	0	0	0					
2013 Savings Persisting in 2016																								0	0	0	0	0	0	0	0	0	0					
2013 Savings Persisting in 2017																								0	0	0	0	0	0	0	0	0	0					
2013 Savings Persisting in 2018																								0	0	0	0	0	0	0	0	0	0					
2013 Savings Persisting in 2019																								0	0	0	0	0	0	0	0	0	0					
2013 Savings Persisting in 2020																								0	0	0	0	0	0	0	0	0	0					

Note: LDC to make note of key assumptions included above

Table 4-d. 2014 Lost Revenues Work Form (pasted link)

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA								
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								Total
	Consumer Program																							kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	
1	Appliance Retirement	Verified																																	0%
	Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
2	Appliance Exchange	Verified																																	0%
	Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								
3	HVAC Incentives	Verified																																	0%
	Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%								

| | | |

Ontario Energy Board

LRAMVA Work Form:
2015 - 2020 Lost Revenues Work Form

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2015-2020 period. Please input or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by the IESO in 2017 should be included in the 2016 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.

4. LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for program savings and its savings adjustments. If a different allocation is proposed for savings adjustments, LDCs must provide supporting rationale in Tab 1-a and highlight the change.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. Please also provide assumptions about the years in which persistence is captured in the load forecast calculation in the "Notes" section below each table.

Tables

Table 5-a: 2015 Lost Revenues
Table 5-b: 2016 lost Revenues
Table 5-c: 2017 lost Revenues
Table 5-d: 2018 Lost Revenues
Table 5-e: 2019 Lost Revenues
Table 5-f: 2020 Lost Revenues

Table 5-a: 2015 Lost Revenues Work Form

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								Rate Allocations for LRAMVA									Total
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting								
			kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kWh	kWh	kW	kW	kW	kWh	kW	0	0	0	0	0	0	0	0	
	Legacy Framework																																							
1	**Residential Program** Coupon Initiative	Verified	4,706,527	4,669,408	4,669,408	4,669,408	4,669,408	4,669,408	4,669,408	4,667,743	4,667,743	4,667,743		303	301	301	301	301	301	301	301	301	301	100.00%																100%
	Adjustment to 2015 savings	True-up	777,931	769,046	769,046	769,046	769,046	769,046	769,046	767,904	767,904	767,904		49	49	49	49	49	49	49	48	48	48	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiative	Verified	5,004,917	4,915,968	4,915,968	4,915,968	4,915,968	4,915,968	4,915,968	4,913,394	4,913,394	4,913,394		336	332	332	332	332	332	332	332	332	332	100.00%																100%
	Adjustment to 2015 savings	True-up	51,769	51,162	51,162	51,162	51,162	51,162	51,162	51,034	51,034	51,034		3	3	3	3	3	3	3	3	3	3	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified	373,322	373,322	373,322	272,278	220,987	0	0	0	0	0		57	57	57	56	32	0	0	0	0	0	100.00%																100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initiative	Verified	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035	4,351,035		2,261	2,261	2,261	2,261	2,261	2,261	2,261	2,261	2,261	2,261	100.00%																100%
	Adjustment to 2015 savings	True-up	137,637	137,637	137,637	137,637	137,637	137,637	137,637	137,637	137,637	137,637		71	71	71	71	71	71	71	71	71	71	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major	Verified	656,805	656,805	656,805	656,805	656,805	656,805	656,805	656,805	656,805	656,805		123	123	123	123	123	123	123	123	123	123	100.00%																100%
	Adjustment to 2015 savings	True-up	207,993	207,993	207,993	207,993	207,993	207,993	207,993	207,993	207,993	207,993		13	13	13	13	13	13	13	13	13	13	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Program																																							
6	Energy Audit Initiative	Verified	3,452,201	3,452,201	3,452,201	3,452,201	0	0	0	0	0	0	12	736	736	736	736	0	0	0	0	0	0		3.00%	62.00%	30.00%	5.00%												100%
	Adjustment to 2015 savings	True-up	1,878,573	1,878,573	1,878,573	1,878,573	5,330,779	5,330,779	5,330,779	5,330,779	5,330,779	5,330,779	12	400	400	400	400	1,174	1,174	1,174	1,174	1,174	1,174	0.00%	3.00%	62.00%	30.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified	30,836,699	30,836,699	30,156,595	30,156,595	30,156,595	30,154,348	29,373,060	29,373,060	28,560,818	25,918,135	12	4,824	4,824	4,619	4,619	4,619	4,618	4,507	4,507	4,307	3,042		11.00%	67.00%	15.00%	7.00%												100%
	Adjustment to 2015 savings	True-up	5,382,554	5,382,554	6,062,657	6,091,243	6,091,243	6,091,243	6,672,530	6,672,530	7,124,384	6,497,336	12	821	821	1,026	1,036	1,036	1,036	1,036	1,147	1,147	1,188	1,034	0.00%	11.00%	67.00%	15.00%	7.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified	5,000,195	3,617,310	2,777,250	2,775,365	2,775,365	2,775,365	2,775,365	2,775,214	2,775,214	2,775,214	12	1,169	853	630	629	629	629	629	629	629	629		90.00%	7.00%	3.00%													100%
	Adjustment to 2015 savings	True-up	-2,021,889	-639,003	201,057	481,781	481,781	481,781	481,781	481,836	481,836	481,836	12	-488	-172	52	116	116	116	116	116	116	116	0.00%	90.00%	7.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation Initiative	Verified	328,413	328,413	328,413	328,413	328,413	328,413	328,413	328,413	293,369	293,369	12	52	52	52	52	52	52	52	52	42	42			100.00%														100%
	Adjustment to 2015 savings	True-up	269,480	269,480	269,480	269,480	269,480	269,480	269,480	269,480	269,480	269,480	12	38	38	38	38	38	38	38	38	38	38	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																							
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified	3,527,753	3,477,653	3,477,653	3,477,653	3,477,653	3,477,653	3,477,653	3,477,653	2,951,442	2,914,969	12	434	433	433	433	433	433	433	433	325	316		18.30%	50.00%	27.60%	4.00%												100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	18.30%	50.00%	27.60%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																																							
14	Low Income Initiative	Verified	3,472,200	3,310,504	3,283,038	3,258,041	3,257,821	3,257,821	3,238,550	3,237,814	2,997,737	2,996,626	12	1,039	1,030	1,029	1,028	1,028	1,028	1,028	1,027	1,027	1,013	100.00%																100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																							
15	Aboriginal Conservation Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilots																																							
17	Conservation Fund Pilot - EnerNOC	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Loblaws Pilot	Verified	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	1,137,198	12	89	89	89	89	89	89	89	89	89	89			100.00%														100%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																																							
	Residential Province-Wide Programs																																							
21	Save on Energy Coupon Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Programs																																							
25	Save on Energy Audit Funding Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Save on Energy Retrofit Program	Verified	1,541,118	1,541,118	1,524,334	1,524,334	1,524,334	1,523,822	1,466,713	1,464,713	1,440,370	1,252,271	12	190	190	185	185	185	184	175	175	173	142		15.00%	45.00%	7.00%	33.00%												100%
	Adjustment to 2015 savings	True-up	10,130,140	11,167,159	11,500,066	7,298,818	7,298,818	7,178,046	7,237,156	7,237,156	7,139,871	6,739,899	12	968	968	974	949	949	937	937	937	902	825	0.00%	15.00%	45.00%	7.00%	33.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New Construction Program	Verified	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0			100.00%														100%
	Adjustment to 2015 savings	True-up	84,008	84,008	84,008	84,008	84,008	0	0	0	0	0	12	12	12	12	12	12	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building Commissioning Program	Verified	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0																	0%
	Adjustment to 2015 savings	True-up	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

| | | |

	Program		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
16	Program Enabled Savings	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Conservation Fund Pilots																																		
17	Conservation Fund Pilot - EnerNOC	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	Loblaws Pilot	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	Conservation Fund Pilot - SEG	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	Social Benchmarking Pilot	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Conservation First Framework																																		
	Residential Province-Wide Program																																		
21	Save on Energy Coupon Program	Verified	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,641,815	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	25,637,829	100.00%
	Adjustment to 2016 savings	True-up	3,013,527	3,013,527	3,013,527	3,013,527	3,013,527	3,013,527	3,012,980	3,012,980	3,012,980	3,012,980	3,012,980	3,012,980	3,012,980	3,012,980	3,012,980	3,012,980	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	3,016,979	100.00%
22	Save on Energy Heating and Cooling Program	Verified	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	4,899,966	100.00%
	Adjustment to 2016 savings	True-up	54,937	54,937	54,937	54,937	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	52,333	100.00%
23	Save on Energy New Construction Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%
24	Save on Energy Home Assistance Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%
	Adjustment to 2016 savings	True-up	1,255,570	1,255,570	1,255,570	1,255,570	1,256,671	1,256,815	1,256,815	1,256,815	1,256,815	1,256,815	1,256,815	1,256,815	1,256,815	1,256,815	1,256,815	1,256,815	1,078,723	1,078,723	1,078,723	1,078,723	1,078,723	1,078,723	98	98	98	98	98	97	97	97	97	74	100.00%
	Non-Residential Province-Wide Program																																		
25	Save on Energy Audit Funding Program	Verified	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	210,282	12	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	100%
	Adjustment to 2016 savings	True-up	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	157,712	12	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	100%
26	Save on Energy Retrofit Program	Verified	26,358,787	27,731,696	27,731,696	27,696,765	27,696,765	27,003,416	27,003,416	27,003,416	26,861,972	26,861,972	26,861,972	26,861,972	26,861,972	26,861,972	26,861,972	26,861,972	12	3,999	3,999	3,999	3,999	3,999	3,784	3,784	3,784	3,784	3,784	3,779	3,779	3,779	3,779	3,779	3,779	100%
	Adjustment to 2016 savings	True-up	21,925,833	22,566,376	22,699,453	22,665,459	21,516,833	21,278,855	21,278,855	21,278,855	21,126,497	21,126,497	21,126,497	21,126,497	21,126,497	21,126,497	21,126,497	21,126,497	12	2,948	3,063	3,073	3,077	2,718	2,685	2,685	2,685	2,685	2,685	2,683	2,683	2,683	2,683	2,683	2,683	100%
27	Save on Energy Small Business Lighting Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	Save on Energy High Performance New Construction Program	Verified	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	509,159	12	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	100%
	Adjustment to 2016 savings	True-up	814,783	814,783	814,783	814,783	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	-95,739	12	272	272	272	272	272	22	22	22	22	22	22	22	22	22	22	22	100%
29	Save on Energy Existing Building Commissioning Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	Save on Energy Process & Systems Upgrades Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100%
	Adjustment to 2016 savings	True-up	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	4,463,526	12	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472	100.00%
31	Save on Energy Monitoring & Targeting Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	Save on Energy Energy Manager Program	Verified	283,145	283,145	283,145	283,145	283,145	203,870	203,870	203,870	203,870	203,870	203,870	203,870	203,870	203,870	203,870	203,870	12	27	27	27	27	27	18	18	18	18	18	18	18	18	18	18	18	100%
	Adjustment to 2016 savings	True-up	339,655	339,655	339,655	339,655	338,820	259,545	259,545	259,545	259,545	259,545	259,545	259,545	259,545	259,545	259,545	259,545	12	19	19	19	19	19	10	10	10	10	10	10	10	10	10	10	10	100%
	Local & Regional Programs																																		
33	Business Refrigeration Local Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34	First Nation Conservation Local Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	Social Benchmarking Local Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Residential Province-Wide Program																																		
36	Save on Energy Instant Discount Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
37	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Program	Verified	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,371	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.00%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%
	Pilot Programs																																		
38	EnWin Utilities Ltd. - Re-Invest Pilo	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
40	Horizon Utilities Corporation - Social Benchmarking Pilo	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
42	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
43	Swimming Pool Efficiency Program	Verified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
	Adjustment to 2016 savings	True-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
44	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
45	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
46	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
47	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings)	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
48	Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified																	12																0%
	Adjustment to 2016 savings	True-up																	12																
49	Street Lighting	Verified																	1	2,314	8,514	8,514	8,514	8,514											100%
	Adjustment to 2016 savings	True-up																	1																100.00%
	Actual CDM Savings in 2011			**91,933,074**																**13,588**															
	Forecast CDM Savings in 2011																																		

	Program	Verified	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
	34,870,192	**7,732,034**	**47,995**	**6,163**	**27,563**	**0**	**2,314**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**																			
	16,725,000	**10,727,000**	**191,563**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**																			
	Distribution Rate in 2016																		$0.01930	$0.02160	$4.07060	$3.65410	$3.47420	$0.02190	$5.31710	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000				
	Lost Revenue in 2016 from 2011 programs																		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2012 programs																		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2013 programs																		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2014 programs																		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Lost Revenue in 2016 from 2015 programs																		$375,247.58	$202,330.86	$266,850.06	$61,762.79	$35,491.55	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$941,682.85
	Lost Revenue in 2016 from 2016 programs																		$672,994.71	$167,211.93	$195,328.14	$22,520.85	$95,737.86	$0.00	$12,301.76	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,165,915.26
	Total Lost Revenues in 2016																		**$1,048,242.30**	**$369,542.79**	**$462,178.20**	**$84,283.64**	**$131,249.42**	**$0.00**	**$12,301.76**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$2,107,598.11**
	Forecast Lost Revenues in 2016																		**$322,792.50**	**$231,703.20**	**$779,776.35**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$1,334,272.05**
	LRAMVA in 2016																																		**$773,326.06**
	2016 Savings Persisting in 2017																		34,870,192	7,737,082	48,063	6,175	27,520	0	8,514	0	0	0	0	0	0	0	0	0	
	2016 Savings Persisting in 2018																		34,870,192	7,740,545	48,117	6,184	27,659	0	8,514	0	0	0	0	0	0	0	0	0	
	2016 Savings Persisting in 2019																		34,870,192	7,743,817	48,084	6,179	27,635	0	8,514	0	0	0	0	0	0	0	0	0	
	2016 Savings Persisting in 2020																		34,870,583	7,525,674	43,297	5,877	26,215	0	8,514	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of key assumptions included above

Table 5-c. 2017 Lost Revenues Work Form

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	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)										Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA										
			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting					Total
	Legacy Framework		kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	0	0	0	0	0	0	0				
	Residential Program																																		
1	Coupon Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0											0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0											
2	Bi-Annual Retailer Event Initiative	Verified	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0											0%
	Adjustment to 2017 savings	True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0											

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Ontario Energy Board

LRAMVA Work Form:
Carrying Charges by Rate Class

Version 4.0 (2020)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. Monthly interest rates are used to calculate the variance on the carrying charges for LRAMVA. Starting from column I, the principal will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rate from column H to determine the monthly variances on carrying charges for each rate class by year.

2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

3. Please calculate the projected interest amounts in the LRAMVA work form. Project carrying charges amounts incuded in Table 6-a should be consistent with the projected interest amounts included in the DVA Continuity Schedule. **If there are additional adjustments required to the formulas to calculate the projected interest amounts, please adjust the formulas in Table 6-a accordingly.**

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.50%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	2.17%
2019 Q1	2.45%
2019 Q2	2.18%
2019 Q3	2.18%
2019 Q4	2.18%
2020 Q1	2.18%
2020 Q2	2.18%
2020 Q3	2.18%
2020 Q4	2.18%

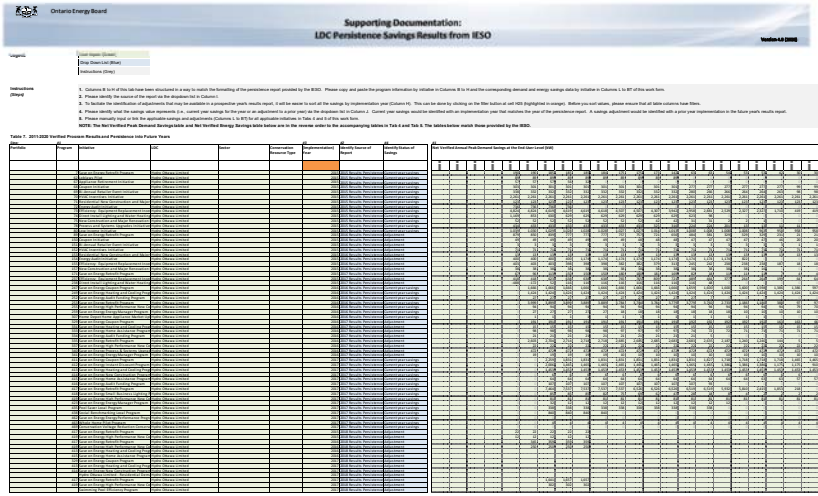
Check OEB website

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting									Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																			
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																			
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																			
Opening Balance for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																			
Opening Balance for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Jul-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																		
Opening Balance for 2016				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-16	2011-2016	Q1	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-16	2011-2016	Q1	0.09%	$55.42	$10.51	-$24.26	$6.44	$10.03	$0.00	$0.94	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$59.07
Mar-16	2011-2016	Q1	0.09%	$110.83	$21.03	-$48.52	$12.88	$20.05	$0.00	$1.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$118.15
Apr-16	2011-2016	Q2	0.09%	$166.25	$31.54	-$72.78	$19.32	$30.08	$0.00	$2.82	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$177.22
May-16	2011-2016	Q2	0.09%	$221.67	$42.06	-$97.04	$25.75	$40.10	$0.00	$3.76	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$236.29
Jun-16	2011-2016	Q2	0.09%	$277.08	$52.57	-$121.30	$32.19	$50.13	$0.00	$4.70	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$295.37
Jul-16	2011-2016	Q3	0.09%	$332.50	$63.08	-$145.57	$38.63	$60.16	$0.00	$5.64	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$354.44
Aug-16	2011-2016	Q3	0.09%	$387.91	$73.60	-$169.83	$45.07	$70.18	$0.00	$6.58	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$413.51
Sep-16	2011-2016	Q3	0.09%	$443.33	$84.11	-$194.09	$51.51	$80.21	$0.00	$7.52	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$472.59
Oct-16	2011-2016	Q4	0.09%	$498.75	$94.63	-$218.35	$57.95	$90.23	$0.00	$8.46	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$531.66
Nov-16	2011-2016	Q4	0.09%	$554.16	$105.14	-$242.61	$64.38	$100.26	$0.00	$9.40	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$590.74
Dec-16	2011-2016	Q4	0.09%	$609.58	$115.66	-$266.87	$70.82	$110.29	$0.00	$10.34	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$649.81
Total for 2016				**$3,657.48**	**$693.93**	**-$1,601.22**	**$424.93**	**$661.72**	**$0.00**	**$62.02**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$3,898.85**
Amount Cleared																		
Opening Balance for 2017				**$3,657.48**	**$693.93**	**-$1,601.22**	**$424.93**	**$661.72**	**$0.00**	**$62.02**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$3,898.85**
Jan-17	2011-2017	Q1	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Feb-17	2011-2017	Q1	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Mar-17	2011-2017	Q1	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Apr-17	2011-2017	Q2	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
May-17	2011-2017	Q2	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Jun-17	2011-2017	Q2	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Jul-17	2011-2017	Q3	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Aug-17	2011-2017	Q3	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Sep-17	2011-2017	Q3	0.09%	$665.00	$126.17	-$291.13	$77.26	$120.31	$0.00	$11.28	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$708.88
Oct-17	2011-2017	Q4	0.13%	$906.81	$172.05	-$397.00	$105.35	$164.06	$0.00	$15.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$966.66
Nov-17	2011-2017	Q4	0.13%	$906.81	$172.05	-$397.00	$105.35	$164.06	$0.00	$15.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$966.66
Dec-17	2011-2017	Q4	0.13%	$906.81	$172.05	-$397.00	$105.35	$164.06	$0.00	$15.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$966.66
Total for 2017				**$12,362.87**	**$2,345.61**	**-$5,412.40**	**$1,436.33**	**$2,236.71**	**$0.00**	**$209.64**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$13,178.77**
Amount Cleared																		
Opening Balance for 2018				**$12,362.87**	**$2,345.61**	**-$5,412.40**	**$1,436.33**	**$2,236.71**	**$0.00**	**$209.64**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$13,178.77**
Jan-18	2011-2018	Q1	0.13%	$906.81	$172.05	-$397.00	$105.35	$164.06	$0.00	$15.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$966.66
Feb-18	2011-2018	Q1	0.13%	$906.81	$172.05	-$397.00	$105.35	$164.06	$0.00	$15.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$966.66
Mar-18	2011-2018	Q1	0.13%	$906.81	$172.05	-$397.00	$105.35	$164.06	$0.00	$15.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$966.66
Apr-18	2011-2018	Q2	0.16%	$1,142.58	$216.78	-$500.22	$132.75	$206.72	$0.00	$19.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,217.99
May-18	2011-2018	Q2	0.16%	$1,142.58	$216.78	-$500.22	$132.75	$206.72	$0.00	$19.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,217.99
Jun-18	2011-2018	Q2	0.16%	$1,142.58	$216.78	-$500.22	$132.75	$206.72	$0.00	$19.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,217.99
Jul-18	2011-2018	Q3	0.16%	$1,142.58	$216.78	-$500.22	$132.75	$206.72	$0.00	$19.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,217.99
Aug-18	2011-2018	Q3	0.16%	$1,142.58	$216.78	-$500.22	$132.75	$206.72	$0.00	$19.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,217.99
Sep-18	2011-2018	Q3	0.16%	$1,142.58	$216.78	-$500.22	$132.75	$206.72	$0.00	$19.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,217.99
Oct-18	2011-2018	Q4	0.18%	$1,311.86	$248.90	-$574.32	$152.41	$237.34	$0.00	$22.25	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,398.43
Nov-18	2011-2018	Q4	0.18%	$1,311.86	$248.90	-$574.32	$152.41	$237.34	$0.00	$22.25	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,398.43
Dec-18	2011-2018	Q4	0.18%	$1,311.86	$248.90	-$574.32	$152.41	$237.34	$0.00	$22.25	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,398.43
Total for 2018				**$25,874.38**	**$4,909.15**	**-$11,327.67**	**$3,006.12**	**$4,681.23**	**$0.00**	**$438.76**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$27,581.96**
Amount Cleared																		
Opening Balance for 2019				**$25,874.38**	**$4,909.15**	**-$11,327.67**	**$3,006.12**	**$4,681.23**	**$0.00**	**$438.76**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$27,581.96**
Jan-19	2011-2019	Q1	0.20%	$1,481.13	$281.01	-$648.43	$172.08	$267.97	$0.00	$25.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,578.87
Feb-19	2011-2019	Q1	0.20%	$1,481.13	$281.01	-$648.43	$172.08	$267.97	$0.00	$25.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,578.87
Mar-19	2011-2019	Q1	0.20%	$1,481.13	$281.01	-$648.43	$172.08	$267.97	$0.00	$25.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,578.87
Apr-19	2011-2019	Q2	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
May-19	2011-2019	Q2	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Jun-19	2011-2019	Q2	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Jul-19	2011-2019	Q3	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Aug-19	2011-2019	Q3	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Sep-19	2011-2019	Q3	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Oct-19	2011-2019	Q4	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Nov-19	2011-2019	Q4	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Dec-19	2011-2019	Q4	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Total for 2019				**$42,178.86**	**$8,002.60**	**-$18,465.69**	**$4,900.39**	**$7,631.06**	**$0.00**	**$715.25**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$44,962.47**
Amount Cleared																		
Opening Balance for 2020				**$42,178.86**	**$8,002.60**	**-$18,465.69**	**$4,900.39**	**$7,631.06**	**$0.00**	**$715.25**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$44,962.47**
Jan-20	2011-2020	Q1	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Feb-20	2011-2020	Q1	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Mar-20	2011-2020	Q1	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Apr-20	2011-2020	Q2	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
May-20	2011-2020	Q2	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Jun-20	2011-2020	Q2	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Jul-20	2011-2020	Q3	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Aug-20	2011-2020	Q3	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Sep-20	2011-2020	Q3	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Oct-20	2011-2020	Q4	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Nov-20	2011-2020	Q4	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Dec-20	2011-2020	Q4	0.18%	$1,317.90	$250.05	-$576.97	$153.12	$238.44	$0.00	$22.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,404.88
Total for 2020				**$57,993.67**	**$11,003.14**	**-$25,389.32**	**$6,737.77**	**$10,492.30**	**$0.00**	**$983.42**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$61,820.97**
Amount Cleared																		



Ontario Energy Board

Supporting Documentation:
LDC Persistence Savings Results from IESO

Version 4.0 (2019)

Legend:
- User Input (Green)
- Drop Down List (Blue)
- Instructions (Grey)

Instructions (Steps)

1. Columns B to H of this tab have been structured in a way to match the formatting of the persistence report provided by the IESO. Please copy and paste the program information by initiative in Columns B to H and the corresponding demand and energy savings data by initiative in Columns I, to BT of this work form.
2. Please identify the source of the report via the dropdown list in Column I.
3. To facilitate the identification of adjustments that may be available in a prospective year's results report, it will be easier to sort all the savings by implementation year (Column H). This can be done by clicking on the filter button of cell H29 (highlighted in orange). Before you sort values, please ensure that all table columns have filters.
4. Please identify what the savings value represents (i.e., current year savings for the year or an adjustment to a prior year) as the dropdown list in Column J. Current year savings would be identified with an implementation year that matches the year of the persistence report. A savings adjustment would be identified with a prior year implementation in the future year's results report.
5. Please manually input or link the applicable savings and adjustments (Columns L to BT) for all applicable initiatives in Tabs 4 and 5 of this work form.

NOTE: The Net Verified Peak Demand Savings table and Net Verified Energy Savings table below are in the reverse order to the accompanying tables in Tab 4 and Tab 5. The tables below match those provided by the IESO.

Table 7. 2011-2020 Verified Province Results and Persistence into Future Years

| Plan Portfolio | Program | Initiative | LDC | Sector | Consumption Persist Type | Implementation Year | Verify Source of Report | Verify Status of Savings | All Verified Annual Peak Demand Savings at the End-User Level (kW) | | |

Ontario Energy Board

LRAMVA Work Form:
Documentation for Streetlighting Projects

Version 4.0 (2020)

Legend User Inputs (Green)

Instructions

Please provide documentation and/or data to substantiate program savings that were not provided in the IESO's verified results reports (i.e., streetlighting projects).

Distributors are encouraged to provide data in the following format, and complete a separate set of following tables for each project. The tables below are meant to be an example. Distributors should complete the tables based on the actual project details. Please create the necessary links to Tab 4/5 and tabulations within this LRAMVA workform to calculate the LRAMVA amounts. Alternatively, LDCs may submit a separate attachment with the project level details for billed demand by type of bulb.

Table 8-a: Name of Muncipality

Summary of Project #2016

Actual lost revenue based on kW billing				
Month	Billed amount (kW)	Gross kW reduction	Months in Service	Net kW reduction
	a	b	c	b * c
Jan-16			12	-
Feb-16			11	-
Mar-16			10	-
Apr-16			9	-
May-16	0.82		8	6.52
Jun-16			7	-
Jul-16	14.36		6	86.17
Aug-16	222.68		5	1,113.42
Sep-16	101.43		4	405.72
Oct-16	104.37		3	313.10
Nov-16	122.89		2	245.77
Dec-16	142.92		1	142.92
Total				2,314
Persistence in 2017				8,513.53
Persistence in 2018				8,513.53
Persistence in 2019				8,513.53
Persistence in 2020				8,513.53

Details of Project #1 (Month, Year)

Pre-conversion billing demand

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d	e	d * e
LED Exterior Area Lights	0.815	1	0.82
LED Exterior Area Lights	14.362	1	14.36
LED Exterior Area Lights	222.685	1	222.68
LED Exterior Area Lights	37.286	1	37.29
Above represents 2440 lights			
LED Exterior Area Lights	64.1435	1	64.14
LED Exterior Area Lights	104.3675	1	104.37
LED Exterior Area Lights	122.8855	1	122.89
LED Exterior Area Lights	142.917	1	142.92
Above represents 4043 lights			
Total			709.46

Post-conversion billing demand

Month Converted	Billing Wattage (kW)	Quantity of Lights	Billed amount (kW)
	d_1		$d_1 * e_1$
May		6	
Jul		175	
Aug		1883	
Sept		376	
		2440	
Sept		554	
Oct		1062	
Nov		1383	
Dec		1044	
		4043	
Application numbers			
136445		2400	
136444		1817	
136446		2500	
		6717	
Lights converted in 2016		6483	
Remaining lights converted in 2017		234	
Total			0.00

Summary of Project #2017

Actual lost revenue based on kW billing				
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	a	b	c	b * c
Jan-17				-
Feb-17				-
Mar-17				-
Apr-17				-
May-17				-
Jun-17				-
Jul-17				-
Aug-17	-			-
Sep-17	-			-
Oct-17	-			-
Nov-17	-			-
Dec-17	-			-
Total				-
Persistence in 2018				-
Persistence in 2019				-
Persistence in 2020				-
Persistence in 2021				-

Details of Project #1 (Month, Year)

Pre-conversion billing demand

Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d	e	d * e