



**EB-2014-0085**

**IN THE MATTER OF** the *Ontario Energy Board Act, 1998*,  
S.O. 1998, c. 15, (Schedule B);

**AND IN THE MATTER OF** an application by Hydro Ottawa  
Limited for an order approving just and reasonable rates and  
other charges for electricity distribution to be effective  
January 1, 2015.

**By Delegation, Before:** Lynne Anderson

## **DECISION and RATE ORDER**

**December 4, 2014**

Hydro Ottawa Limited (“Hydro Ottawa”) filed an application with the Ontario Energy Board (the “Board”) on August 13, 2014 under section 78 of the *Ontario Energy Board Act*, seeking approval for changes to the rates that Hydro Ottawa charges for electricity distribution, effective January 1, 2015 (the “Application”).

Hydro Ottawa last appeared before the Board with a cost of service application for the 2012 rate year in the EB-2011-0054 proceeding. To adjust its 2015 rates, Hydro Ottawa selected the Price Cap Incentive Rate-setting option (the “Price Cap IR”) which provides for a mechanistic and formulaic adjustment to distribution rates and charges in the period between cost of service proceedings. The Application met the Board’s filing requirements<sup>1</sup> for filings by rate-regulated electricity distributors (“distributors”) applying for annual rate adjustments under Price Cap IR.

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<sup>1</sup> Report of the Board: Renewed Regulatory Framework for Electricity Distributors: A Performance-Based Approach (October 18, 2012); and Filing Requirements for Electricity Distribution Rate Applications (July 25, 2014)

While the entire record in this proceeding has been considered by me, this decision will make reference only to such information as is necessary to provide context to my conclusions. The following issues are addressed in this Decision and Rate Order:

- Price Cap Index Adjustment;
- Rural or Remote Electricity Rate Protection Charge;
- Retail Transmission Service Rates; and
- Review and Disposition of Group 1 Deferral and Variance Account Balances.

### **Price Cap Index Adjustment**

The Price Cap IR option is a streamlined regulatory process designed to provide distributors with sufficient revenue to cover cost increases due to inflation while providing an incentive structure to drive productivity improvements.

Under the Price Cap IR option<sup>2</sup>, distribution rates are adjusted by an inflation factor, less the sum of a productivity factor and a stretch factor. Based on its established method<sup>3</sup>, the Board has set the inflation factor for 2015 rates at 1.6% and the productivity factor remains zero percent. The Board also determined that the stretch factor can range from 0.0% to 0.6%, assigned based on a distributor's cost evaluation ranking. The Board assigned Hydro Ottawa a stretch factor of 0.3% based on the updated benchmarking study for use for rates effective in 2015<sup>4</sup>.

As a result, the net price cap index adjustment for Hydro Ottawa is 1.3% (i.e. 1.6% - (0% + 0.3%)). The price cap index adjustment applies to distribution rates (fixed and variable charges) uniformly across all customer classes. The price cap index adjustment does not apply to the components of delivery rates set out in the list below:

- Rate Riders;
- Rate Adders;
- Low Voltage Service Charges;
- Retail Transmission Service Rates;
- Wholesale Market Service Rate;
- Rural or Remote Electricity Rate Protection Charge;

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<sup>2</sup> Report on Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for Ontario's Electricity Distributors (December 4, 2013)

<sup>3</sup> As outlined in the Report cited at footnote 2 above.

<sup>4</sup> Report to the Ontario Energy Board – "Empirical Research in Support of Incentive Rate-Setting: 2013 Benchmarking Update." Pacific Economics Group LLC. July, 2014.

- Standard Supply Service – Administrative Charge;
- Transformation and Primary Metering Allowances;
- Loss Factors;
- Specific Service Charges;
- MicroFit Charge; and
- Retail Service Charges.

### **Rural or Remote Electricity Rate Protection Charge**

As of the date of this Decision and Rate Order, the Board has not issued a decision on the Rural or Remote Electricity Rate Protection (“RRRP”) charge for 2015. In the event that a new charge is established for 2015, the RRRP rate order will supersede this Decision and Rate Order with respect to the RRRP charge currently set at \$0.0013/kWh.

### **Retail Transmission Service Rates**

Electricity distributors are charged for transmission costs at the wholesale level and then pass on these charges to their distribution customers through their Retail Transmission Service Rates (“RTSRs”). Variance accounts 1584 and 1586 are used to capture differences in the rate that a distributor pays for wholesale transmission service relative to the retail rate that the distributor is authorized to charge when billing its customers.

The Board has issued guidelines<sup>5</sup> which outline the information that the Board requires electricity distributors to file in order to adjust their RTSRs for 2015. The RTSR guideline requires electricity distributors to adjust their RTSRs based on a comparison of historical transmission costs adjusted for the new Uniform Transmission Rates and the revenues generated under existing RTSRs. Similarly, partially embedded distributors, such as Hydro Ottawa, must adjust their RTSRs to reflect any changes to the applicable RTSRs of their host distributor(s), e.g. Hydro One Networks Inc.

Given the timing of rates decisions, distributors whose rates are set as of January 1 typically derive their RTSRs using the previous year’s Uniform Transmission Rates because updated ones are not yet available. As with past years, the Board has not yet adjusted Uniform Transmission Rates and Hydro One sub-transmission class rates for

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<sup>5</sup> Guideline G-2008-0001 - Electricity Distribution Retail Transmission Service Rates, revision 4.0 (June 28, 2012)

2015. I will therefore approve the RTSRs as adjusted in this Application so that they reflect the current applicable rates. The differences arising from the new 2015 rates, once approved, will be captured in Accounts 1584 and 1586 for future disposition.

### **Review and Disposition of Group 1 Deferral and Variance Account Balances**

The Board's policy on deferral and variance accounts<sup>6</sup> provides that, during the IRM plan term, the distributor's Group 1 account balances will be reviewed and disposed if the preset disposition threshold of \$0.001 per kWh, whether in the form of a debit or credit, is exceeded. The onus is on the distributor to justify why any account balance in excess of the threshold should not be disposed. If the balances are below this threshold, the distributor may nevertheless propose to dispose of balances.

Hydro Ottawa's 2013 actual year-end total balance for Group 1 accounts including interest projected to December 31, 2014 is a credit of \$2,552,670. This amount results in a total credit claim of \$0.0003 per kWh, which does not exceed the preset disposition threshold. Hydro Ottawa did not seek disposition of balances in its application.

The balances do not exceed the preset disposition threshold therefore I agree that no disposition is required at this time.

### **Rate Model**

With this Decision and Rate Order are a rate model, applicable supporting models and a Tariff of Rates and Charges (Appendix A). Entries in the rate model(s) were reviewed to ensure that they were in accordance with the 2014 Board-approved Tariff of Rates and Charges. The rate model was adjusted, where applicable, to correct any discrepancies.

### **THE BOARD ORDERS THAT:**

1. The Tariff of Rates and Charges set out in Appendix A of this Decision and Rate Order is final, with the exception of rates for the Standby Rate classification which is approved on an interim basis, effective January 1, 2015 for electricity consumed or estimated to have been consumed on and after such date. Hydro Ottawa Limited shall notify its customers of the rate changes no later than the delivery of the first bill reflecting the new rates.

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<sup>6</sup> Report of the Board on Electricity Distributors' Deferral and Variance Account Review Initiative (July 31, 2009)

**DATED** at Toronto, **December 4, 2014**

**ONTARIO ENERGY BOARD**

*Original signed by*

Kirsten Walli  
Board Secretary

**Appendix A**

**To Decision and Rate Order**

**Tariff of Rates and Charges**

**Board File No: EB-2014-0085**

**DATED: December 4, 2014**

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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

EB-2014-0085

## RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triple or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the distributor's Conditions of Service.

## APPLICATION

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

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

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

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

## MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	9.67
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0234
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0077
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0042

## MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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

EB-2014-0085

## GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts taking electricity at 750 volts or less whose monthly average peak demand is less than, or is forecast to be less than 50 kW. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

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

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	16.72
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0210
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0070
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0040

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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EB-2014-0085

## GENERAL SERVICE 50 TO 1,499 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,500 kW. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

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

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	260.82
Distribution Volumetric Rate	\$/kW	3.5691
Low Voltage Service Rate	\$/kW	0.02354
Retail Transmission Rate - Network Service Rate	\$/kW	2.9072
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6232

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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EB-2014-0085

## GENERAL SERVICE 1,500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to non residential accounts whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 1,500 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

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

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	4,193.93
Distribution Volumetric Rate	\$/kW	3.4887
Low Voltage Service Rate	\$/kW	0.02516
Retail Transmission Rate - Network Service Rate	\$/kW	3.0186
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.7347

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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EB-2014-0085

## LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	15,231.32
Distribution Volumetric Rate	\$/kW	3.3129
Low Voltage Service Rate	\$/kW	0.02833
Retail Transmission Rate - Network Service Rate	\$/kW	3.3462
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.9535

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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EB-2014-0085

## UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 120/240 volts single phase whose monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Qualification for this classification is at the discretion of Hydro Ottawa as defined in its Conditions of Service.

### APPLICATION

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	4.43
Distribution Volumetric Rate	\$/kWh	0.0219
Low Voltage Service Rate	\$/kWh	0.00006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0070
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0040

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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## STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation equal to or greater than 500 kW and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

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### MONTHLY RATES AND CHARGES - Delivery Component (Approved on an Interim Basis)

Service Charge	\$	122.41
Standby Charge - for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of the generation facility).		
General Service 50 to 1,499 kW customer	\$/kW	1.6337
General Service 1,500 to 4,999 kW customer	\$/kW	1.4985
General Service Large Use customer	\$/kW	1.6629

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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EB-2014-0085

## SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	2.62
Distribution Volumetric Rate	\$/kW	10.0361
Low Voltage Service Rate	\$/kW	0.01785
Retail Transmission Rate - Network Service Rate	\$/kW	2.1461
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.2058

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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EB-2014-0085

## STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting controlled by photocells. The consumption for these customers is based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

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

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	\$	0.57
Distribution Volumetric Rate	\$/kW	3.9997
Low Voltage Service Rate	\$/kW	0.01749
Retail Transmission Rate - Network Service Rate	\$/kW	2.1570
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.2310

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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EB-2014-0085

## MICROFIT SERVICE CLASSIFICATION

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

### APPLICATION

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### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	5.40
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# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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## ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.45)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1.00)

## SPECIFIC SERVICE CHARGES

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### Customer Administration

Arrears certificate	\$	15.00
Duplicate Invoices for previous billing	\$	15.00
Request for other billing information	\$	15.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Unprocessed Payment Charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00

### Non-Payment of Account

Late Payment – per month	%	1.50
Late Payment – per annum	%	19.56
Collection of account charge – no disconnection	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00

### Other

Temporary Service – Install & remove – overhead – no transformer	\$	500.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35
Dry core transformer distribution charge		As per Attached Table

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2015

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

EB-2014-0085

## RETAIL SERVICE CHARGES (if applicable)

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

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

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

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

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

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

## LOSS FACTORS

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

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0358
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0170
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0254
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0069

# Hydro Ottawa Limited

## TARIFF OF RATES AND CHARGES

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EB-2014-0085

### Dry Core Transformer Charges

Transformers	No Load Loss (W)	Load Loss (W)	Cost of Transmission and LV per kW	Cost of Energy and Wholesale Market per kWh	Total Monthly cost of power	Cost of Distribution per kW	Total
Rates			\$4.44	\$0.09		\$2.85	
25 KVA 1 PH	150	900	\$0.71	\$7.95	\$8.66	\$0.46	\$9.12
37.5 KVA 1 PH	200	1200	\$0.95	\$10.60	\$11.55	\$0.61	\$12.16
50 KVA 1 PH	250	1600	\$1.21	\$13.33	\$14.54	\$0.78	\$15.32
75 KVA 1 PH	350	1900	\$1.62	\$18.37	\$19.99	\$1.04	\$21.03
100 KVA 1 PH	400	2600	\$1.95	\$21.36	\$23.31	\$1.25	\$24.56
150 KVA 1 PH	525	3500	\$2.58	\$28.11	\$30.69	\$1.66	\$32.35
167 KVA 1 PH	650	4400	\$3.21	\$34.86	\$38.07	\$2.06	\$40.13
200 KVA 1 PH	696	4700	\$3.43	\$37.32	\$40.75	\$2.20	\$42.96
225 KVA 1 PH	748	5050	\$3.69	\$40.11	\$43.80	\$2.37	\$46.16
250 KVA 1 PH	800	5400	\$3.95	\$42.89	\$46.84	\$2.53	\$49.37
*15 KVA 3 PH	125	650	\$0.57	\$6.54	\$7.11	\$0.37	\$7.47
*45 KVA 3 PH	300	1800	\$1.43	\$15.89	\$17.32	\$0.92	\$18.24
*75 KVA 3 PH	400	2400	\$1.90	\$21.19	\$23.09	\$1.22	\$24.31
*112.5 KVA 3 PH	600	3400	\$2.81	\$31.62	\$34.42	\$1.80	\$36.22
*150 KVA 3 PH	700	4500	\$3.40	\$37.34	\$40.74	\$2.18	\$42.92
*225 KVA 3 PH	900	5300	\$4.26	\$47.60	\$51.85	\$2.73	\$54.58
*300 KVA 3 PH	1100	6300	\$5.16	\$58.02	\$63.18	\$3.31	\$66.49
*500 KVA 3 PH	1500	9700	\$7.30	\$80.06	\$87.36	\$4.69	\$92.05
*750 KVA 3 PH	2100	12000	\$9.84	\$110.74	\$120.59	\$6.32	\$126.90
*1000 KVA 3 PH	2600	15000	\$12.22	\$137.23	\$149.45	\$7.84	\$157.30
*1500 KVA 3 PH	4000	22000	\$18.54	\$210.21	\$228.76	\$11.90	\$240.66
*2000 KVA 3 PH	4800	24000	\$21.68	\$250.21	\$271.89	\$13.92	\$285.81
*2500 KVA 3 PH	5700	26000	\$25.15	\$295.00	\$320.15	\$16.15	\$336.30

No Load and load losses from CSA standard C802-94: Maximum losses for distribution, power and dry-type transformers commercial use.

Average load factor = 0.46 average loss factor = 0.2489

\*For non-preferred KVA ratings no load and load losses are interpolated as per CSA standard